

## THE PRACTITIONER

A Monthly Journal

## THERAPEUTICS.

#### CDITED BY

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## THE PRACTITIONER.

JULY, 1870.

## Original Communications.

ON QUININE AND ACCORDE IN PARALATIC LIVER

BY C. BINZ. M.P.
P. A. C. St. J. St. A. J.

As for a I know, Si B Billion visition of the plant made the observation, that it is the description of the plant marrow the temperature of the body is satisfied extensely high degree in active hours.

Since then the same objection has been made exceld fine a both in England and in Germany (ck. H. Weber, \*Transactions of the Chineal Society," London, New 22, 1863, and it has been proved that this case of high temperature of the blood always and especially occurs during a high temperature of the outer an

In the year 1866. Tsche scheschin, a pupil of the Physiological Institution of Berlin, fried to produce the same effect on an animal. It was then shown that after an artificial division of the spinal marrow the wornth of the body in total or a considerable degree, which could be preceded only by on 1 and the body in bod conductor of heat as cotton wool as, but that afterwards the temperature to a to the same heads. In previously seen in human Lodics. It was clear that in order to produce the above-mentioned effect, a too great cooling of the skin must be avoided. The division of the cord, in not too low a spot,

causes a paralysis of all vascular nerves, and by that means a considerable augmentation of the waste of heat on all peripheric parts. On the second hand, the same paralysis causes an easier intercommunication of the liquids inside and outside the vessels in the interior, and consequently a greater development of heat. As this occurs, when the centre of the nervous system is separated from the periphery, it must be admitted that there are some parts within the brain which have a moderating influence on the production of warmth in the rest of the body.

The lowering of the temperature in fever, which has been observed with the help of the thermometer for the last eight or ten years in Germany, was often ascribed to an irritating effect of the different drugs on this moderating centre. Even if other factors were allowed to have been active in the same direction, as, for instance, the pre-sure in the arterial system, the influence of the nerves seemed to be of a preponderating importance. The antipyretic action of quinine was especially attributed to this cause.

In my former investigations I have proved quinine to possess a specific chemical action on organic mixtures, such as blood and matter. All processes of a incentation (in horsard liquids) and of putrefaction are powerfully inhibited by it. The development of active ovegen (ozone) is retarded, or possibly prevented, and the same effect may be produced on activing animal without endanceing its life. If we adout that the laws of nature are the same within the animal body as without, we must of necessary allow that quitine is an antipyretic, on account of it lowering, in a direct manner, the processes of oxidition within the vessels and tissues.

But as a 15 to il 'nown that different effects in the animal body may be pre-laced by orthornt means at the same time, the possibility of an immediate action of quinine on the supposed moderating centre is nevertheless a first able.

Pharmacolo and experiment must be able to decide this. For that purpose I chose large, strong does, as they lose a less degree of warmth in the first stage of the paralysis of the vessels. Thickness of the hair tarillates the experiment. The spinal marrow was cut between the sixth and seventh veriebre, whilst

the animal was in a cood macross of morphs and claim of a con-Having put the animal into a placewhere the body states old be kept at the same hardit, the heat of the took was to be the rectum every quarter of an hom.

After having twice convince I may distrable acrees. The details which Nameyo and Quincke have public to be the sum subject (c). As his imprinatomic and Physiological von her hard and Publish, 1869, p. 171. I employed to other with Me C. Bouvier, a series of experiments to prove the effect of quantum under the above enguin fances. But before I come to a communication of the pharmaco-dynamic results I thought obtain to give a short statement of a curve as it resulted from the normal experiment.

A strong terrier, after the operation, which an excited without any considerable loss of blood, is put into a box open on eatheraide. This is placed mean a moderately warm tove. The animal is covered with cotton wood. Complete paralysis of all muscles except in lead, and note, and the ouplitain, which works deeply and recalluly. The temperature of the extended before the operation was 35% the paral to relay haunched. The dog was put into the loss at 10 h. Lemin. Every quarter of an hour the thermometer is introduced into the air.

H ir plane ittle	I spik iffe i	
10 30   3×22   10.45   3×32   11.15   3×32   11.15   3×12   11.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×11   12.15   3×17   3×17	18 19 19 19 20 19 20 20 20 20 20 20 20 20 20 20 20 20 20	Some even tepfil milk men jeuted actoris the atomicals.  I that extistions in a post of the second in the second i
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A few minutes after 3-o'clock short convulsions and death. The examination showed complete and plain division of the spinal marrow between the 6th and 7th vertebre of the neck.

The maximum thermometer rose, after death, from 41.4° to 42.3° (106° and 198° Fahrenhoit).

The application of strong, but not toxic, doses of quinine, under such circumstances, proved that the separation of the maderating centre of warmth from the whole frame does not prevent at all the antippeter power of quinine declaring itself in a direct and active manner. Only if the conditions of the fever are too favourably constituted, the effect of quinine fails thoroughly. Inseed of a direct decrease, or at least an applanation of the curve, no effect, or only a slight stoppage, is noticeable.

In at least the same way as quinifie, alcohol acts, even when the moderating centre of warmth is separated from the periphery. It is proved by former investigations that alcohol in febrile and non-febrile bodies is generally to be regarded as an antipyretic. We know that alcohol irritates the brain, at least at the commencement of its introduction into the blood. Nothing seems to be more obvious than that this irritation takes place in the above-named part of the brain likewise. The experiment, made with all due precaution, showed in this case, as in many others, that the fact did not answer to the seemingly logical anticipations. The antipyritic effect of alcohol is clso independent of an arritation of the moderating centre.

One point must not be overlooked which clearly proves the chemical commeters of both antipyreties with the blood and the tissues. It is the altering of the post-mortal temperature. By a great many observation, it is established that in cases of previous fever -to some extent perhaps in all cases—the heat of the blood does not coale with the beating of the heart, but that, on the contrary, it rises for some hours afterwards far beyond the ordinary fever height. Naunyn and Quincke observed it in their lifteen cases every time they took notice of it; and I, too, in my normal experiments, remarked the same, once not only as before stated to 0% C, but as far as 1.5° C.

<sup>1</sup> The description of some of the other cleven curves would exceed the space of this periodical. They will be published in Virchow's "Archiv," July and August 1870

The generally received explanation of this fact is this: During lifetime a great portion of the heat produced in the blood by the presess of explation radiates from the continually replenished vessels of the whole skin and of the lungs. Circustation ceases at the moment of death and with it the possibility of this considerable cooling. In the interior of all tissues, the chemical relations are going on, for a certain time, as before death. The effect of this preponderates for a tex hours over the non-reception of external exagen and of the small escape of warmth through the bloodless skin, until at last the want of new exagen puts an end to a fermer source of the increase.

In both serges of experiments it appeared that the post-mortal temperature was always lowered. With quantize the faising was only 0.1% 0.5 °C, to 0.9 \( \frac{1}{2} \) "o in normal cases, and with alcohol there was no post mortal faising whatever, although all external conditions were very taxourable.

Is perfectly coincides with this, that the putrefaction of the corpses which, according to Namyn and Quincke, takes place after the said operation in an extremely quick and decided manner, only mannested it elt slowly and inditingly.

Now, the common factors to who had no influence in either of these cases. The nerves can only act during life, and the heart, and with it every pressure in the vessels, stops in warm-blooded animals very shortly after death. From a purely logical point of view it must also be obvious:—The immediate chemical activity, as is now unanimously admitted, forms the principal source of bothly heat; the contrary effect must be produced by an immediate logical of that activity.

I should like to mention an hypothesis as explanation of the non-acting of both antipyreties in those cases where the fever curve was in too rapid an increase. Of alcohol we know that it is very quickly consumed in the body, and especially when the process of oxidation is very energetic. After having given a terrier with paralytic fever ten ounces of alcohol (98 per cent) in two hours, I endeavoured to find alcohol in the Bladder, which had not been empired during all the time. The very exact treisley "vaporimeter," which indicates as far as 0.1 volume per cent, showed nothing. After distillation, the well-

known test with hichromate of potash indicated only a slight trace, as did the test made with alkalt and iodine, lately published by Lieben. The stomach of the animal contained no alcohol.

It may be the same with quinine. Hitherto it has been assumed that at least five-sixths pass without decomposition through the blood and the kidneys. Kerner in his late paper (Pfluger's Archiv für Physiologie, Bd. 111. p 93-165) proves that a part of the quinine reappears in an exittated state, as Dehydrocylquinine. This substance has almost all the chemical reactions of the original preparation, but is perfectly inactive in physiological effect.1 Externally of the animal body, the dihydroxylquiffine can be produced by the action of the strongly oxidating permanganate of potash on quinine. There is no reason to prevent us from assuming that the quantity of dihydroxylquinine tound in persons in a state of high fever will, by in ther climal researches, be found great enough to explain the non-acting of the prescribed medicament. Of course it must be ascertained that the quinine has been absorbed by The stomach, which does not always take place when the sulphate without additional and is employed, or when by reason of the fever, or by other local derangements, the digestive functions are out of order

One possibility we must still take into consideration. Quinine and alcohol might act as mutants on the peripheric parts of the spinal marrow, and thus cause a contraction of the paralysed vessels. Our experiments do not lead us to such a conclusion. All that we collective know on the action of both substances on the nervous scene, is only in revous of the reverse.

Put o and a partition must also be taken into account. In our experiment, we trivial nothing tending in that direction. Both of our reason and hard limit levels, as we can easily prove, although the only victor that has shown itself for some

If max 1 = 1 = 1 1 ed. there is he may it was requisite to re-examine, on this country, and 1 had an engine part shell (1 Loose's 1868, p. 118, and the I indicated part of the transity of quanto on patriculation, for natural indicated part of the A. , and that he fully contains my statements, as Matter heavest if the heavest I in the fully contains my statements, as Matter heavest if the heavest I in the fully contains my statements, as the term at a not present the recently of troops (Cohnheim) and its prevention by quantity

time. More, and expecially remoners and in the same medial enderdie this point

In conclusion, the que tion to be a select that have been known as 1 of 1 experiment might be that perfectly again aware, these unfortunate, quarts have been " out one of the first torturus exaptors of the intense tever, being alleviated. Them I'm for our class possibly be done in whater condity to be. able to a certain what is to be realized in the . I am allowed to offer any advice for such in the entire of the this, that a lasting successive solely to be obtained at the beauty is applied in a large dose at the countrie ment of the real root temperature; and further, that the process is I grow the I atmosphere, so as to second the internal coding are a figuration or alcohol. With the latter plan I succeeded two errors of factorily in lengthening the lives of the injure Lagrand, which remained in an entirely quiet and painless state

ON THE TREATMENT OF DISTENSION OF THE TRONGAL SINUS FROM PENT UP SECRETION OR PUS, WITH TWO CASES, AND ILLUSTRATIONS.

IY CIOLOT LIWSON,

Some the I of the Open I to H petal, Merchalds, and Assistant Some of the I D. H special

The two following cases are well-marked examples of distension of the frontal sinu, and of the great deformity from displacement of the eve which may be caused by this affection. The most efficient the finent consists in first establishing and afterwards maintaining a communication between the interior of the eyest and the every of the nose, so that by continued dramere and the application of local astrongents the walls of the eye in adulty contract. With the diminution of the cavity, the eye steadily recedes towards its normal position; and although in severe and long-standing cases the eye is never completely restored to its proper level within the orbit, yet the improvement is always sufficient to satisfy the patient, independently of the mental arbut, aimed by the removal of a turnous which has long been a source of anxiety.

The operation which I performed in each of the cases I have to a lite was the following the description of which I have taken from my menual on Discusse and Injuries of the Eye"

A m' convel meron puell I with the fold above the lider to be node ever the next prominent part of the tumour, and having by a little or a tion exposed its surface, the scalpel should be plun at into it and an opening made to the extent of the maxim. The index burger of the right hand is now to be pushed into the line through the wound to ascertain the size of the civity and it tiere is any necresced or various bone. Whilst thus exploring the sinus, the little finger of the left

hand should to peed up the englangers of adora and your made to indeed the apit it will be the impermate mas will approximate the tells as the ent of the one in the more. After a help and and well it mil that at a one part the increasily almost contains the state of the plate of home letwe is trem. There is the extremely the inner in the frontai sing is to be welcome but that in the notal is to be a fund in the transfer to the gonge or cleanor, Thick retails it I his too no and made to ferre at 1 ve into the restriction here I mena of bone on which the tip of the lattle to a real time. A commanufaction between the frontal arrestal the needs of a been thus established an indicantly corpus to with hidesent at short distance of tests and breed once removed which is to be afterward first number the for head with the either end protendes slightly from the no tril combig

The coust was of introducing the drain of tale as to pass a • probe with mere up the nated in lout of the wound, and having factors I the field to state a modern accordingly, to dies it buka cuiths which in

The object of the drame entry extent to be examed between the two civiles is in claims and to enable the attendant to with our the frontil sun at bet twice a day with some astrongent and deindect of solfit ong

Cast T - John C used of cum under my one at the Royal London Ophth danc Hospital on March 12, 1869, on account of the large tumour at the name add of the orbit which To well shown in the woodent light drawn from a photograph before any tack ment was commenced

History. The patient dues his posent affection from a kick he received on the left exchange from a horse when four years old fifty fem years a o there're till remaining i the result of the many a department of the four over the let exchange and after on the must be of the terms Im left eye is considerably displiced by the turnor of a left mean he further from the meant made remembered down in the face than its fellow of the opporte at the eners prope to I outward, and the patient is small by my chart to draw it inwards.

The inner half of the field of vision is lost, but in the outer half he can count fingers, although he is mable to read any sized type. On the left side of the bridge of the hose there is a smooth, round, elastic swelling about the size of half a large walnut protruding from the inner side of the orbit. It varies in size, being much smaller when he gets up in the morning, and larger when he goes to bed at night. There is no pain in the tumour, nor in the scar of the old injury.



Pio. 1.

On the day of the patient's admission into the hospital I performed the operation I have described, and passed an indiarubber drainage date through the dragned sings into the left cavity of the mose out touf of the conveyonding nostril, as is represented in the weather, Fig. 3. The contexts of the cyst consisted solely of a thick dark elemental third, exidently the pentup accumulation of many year forction of the lining membrane of the Liontal sinus A very light amount of irritation followed this operation, and the petron' in a fee, days expressed himself greatly relieved of the sense of weight which had lately oppressed his brow." A free decharge drained through the tube, which was shifted twice a day, and previous to each shifting the cavity of the eyst was thoroughly cleansed with a solution of carbolic acid, Mix ad Ique = j, which was squirted into the sinus through the drainage tube.

## PRONTAINSIN'S TROM PINTAP SECRETION

Gradually the discharge dinamshed in quantity, on larging tyst wills contracted, the eye regimed to a meet a tray or proper position within the orbit. The tube was word for an may eight months, when, a all discharge had we call it we works drawn. "After the removal of the dramme tube there was lat a fittuous opening at the inner angle of the orbit, which may possibly require a dight operation to effect a perminent clears.

CASE 11.—Alices —, and 21, came under my care at the Ophthalmic Hospital, on April 6th, 1869, on account of a funour on the inner side of the orbit which projected the eye downs and ontwards, as is correctly represented in the week at 1 \( \frac{1}{2} \), taken from a photograph.



I 10. 2

History.—The girl states that about six years ago she noticed a swelling at the inner side of the left orbit, close to the bridge of the nose; it was small and soft to the touch, and varied in size, being larger at one time than another, it gradually increased until it attained the dimensions shown in the drawing. The sight of the every good. She wan read No. I with ease at 12 inches, and No. XX. Smillen at 20 feet. Her mother thinks that the swelling originated in a severe attack of cryspelar which she had when she was six years old. On two occasions the tumout has been punctured, and each time a thick fluid was evacuated.

#### 12 TREATMENT OF DISTENSION OF THE PRONTAL SINUS.

After her admission into the hospital, I performed on this patient the same operation as in the preceding case, and succeeded in introducing a drainage tube through the distended sinus, as is represented in Fig. 3. After cutting into the tumour.



Pu. 3

my finger passed readily into a large cavity, the dilated frontal sinus, in which I detected a small portion of necrosed bone, which was, however, too firmly adherent to the living structure to be detached. The contents of the cyst consisted partly of the same dark glairy fluid as was found in the first patient, but partly also of pus, with which the dark fluid was freely streaked. It is very probable that through the free channel now established between the front d sinus and the nose the portion of necrosed hone will escape after it has become detached.

The after treatment consisted in daily shitting the tube, and in washing out the cy that hist with a solution of carbolic and, Miv ad aquae 3; and atribuards with a lotion of glycerini aciditannici 5j, ad aquae 5,0j. The patient progressed most satisfactorily, and after a few weeks returned to her home, where she continued to wear the tube for nearly six months. The last account I received from her was accompanied with a photograph, which was taken just before the tube was withdraws. She was much improved in appearance, and the eye had returned to its proper level within the orbit

# ON THE TREATMENT OF COMMENCING CHRONIC DIARRIGEA IN YOUNG CHILDREN

#### BY EU-PACE SMITH, MIC

Physician Extraordicira to HM II Secret the Box is Physica to the North West I ad a Fe Trainsecoft Sek to I at a.

Chronic diarrhora in young children, a simple functional derangement which becomes continued, is always a serious and often a fatal disease. It usually begins very insidiously on I not unfrequently results from a slight child or a meal of improper food, which exert is a little matter not the atmospherical possible. This irritation, when one set up, a case is meaned to a by a cases the same in kind, athough he among the rest than those which originally provoked it, and a chronic cutairly is moined, which becomes less and less amenable to treatment the longer it continues.

A child of a year or eighteen months old is exposed to cold, and shoftly alterwards the howels become slightly relaxed. The purging is, however, neither severe not of long continuance, it speedily ceases, and the shild appears to have recovered. The bowels, however, do not return to a healthy cophition. There is no diarrhoes in fact; complaints are made that the bowels are not sufficiently open. For a day or two they are not relieved at all; then, on the third day, the child has two or more large sour pasty looking motions more or less sluny from the minens with which they are mingled and passed with considerable, training efforts and much apparent disconder. The state of slungs continuation weeks. The child sets whithe pale, but, it able to walk, still keeps on his feet. He is occasionally sick vomiting soursmelling ford, with sometimes a little bale, and his breath often smells sour and offensive. The appetite is all this time usually in-

impaired; he may occasionally refuse his food for a day or two, but his appetite soon returns, and with the exception of an occasional attack of diarrhora lasting for one or two days, the bowds remain irregular, the stools, when they occur, being large, pale, pasty, and sour-smelling, consisting evidently of undigested food, mixed with a little fiscal matter and a considerable quantity of mucus. With the exception of gradual loss of flesh, colour, and spirits, there is nothing very positive in the condition of the child by which the attention can be arrested.

After some weeks, or even months, during which he has got thinner and paler, without any change in his general state, the child is seized with an attack of purging, which does not, as has been usual, pass away. On the contrary it, becomes more severe, and the stools increase in number and in quantity. The child now loses flesh rapidly; he is taken altogether off his feet, and his state becomes one of great danger

These cases are often looked upon as instances of disease of the mesenteric glands, but the most careful examination of the belly will seldom furnish any satisfactory evidence of glandular enlargement. The temperature is lower than in health, and seldom rises higher than 98° Fahr, in the rectum. There is no particular desire for drink. The child is a little restless at night; he takes, his food with considerable appetite, and even sometimes with voracity: the food, however, does not nourish him, and appears hardly changed in the stools.

These cases, obstinate as they prove when not treated judiciously, will yet yield quickly to suitable measures; and unless the weakness and emaci discrete very great do not as a rule present any great difficulty in their management.

The object of the precent paper is to describe the method of treatment applicable to the recases during the period, often sufficiently extended, before the duarhout has become confirmed; when the child is becoming more and more listless and pale, is losing flesh and strength, while his motions, infrequent but copious, exhibit the characters which have been described shove.

The presence of undgested food in the motions of a young child, especially if that child exhibits evident marks of deficient nutrition, is a sign that the diet is an unsuitable one and requires alteration. Whether the digestive weakness be a simple

functional defautement of he due to the un torse of or an disease, in culting one was object forthe in state a character clade due to be provered as a consentrat the first he and one may be in the trade of the tent of the man endline. med unit nay base. This uniter bet a spille as possible to excite further unit court he alieun us could the aich cases, however, this accumate not parties of the smottes to no invariaan east tesk. Attries of bool in which so the arm tomed to rely, and from which a leadily check beare all principal arrest. will here often fall us altogether. This formur his food should be given with the almo traction and will often be found to agree except in very in ill quantities. I ven milk, our great re ource in all case folgor a tree de incorent in children, must be sometimes dispensed and he I've but a very unestanguarder find cases where milk, whather the rest with water or thickened with isingless, or with turnacious tool council be digested. long as it is taken, the pule purity-like matter of which the motions consist, and who are it is a him equalities, is explicitly dependent to a the model to the etail to depent so long is that the unit of the , its bereit mit 11 , commonly in children a tron car in the reason age the milk must be replaced entire wholle or , in the be other founds.

Although farm room tood is a too and well borns in these cases, yet Lachig's farm cone to d for rulints are prepared by Mellin, of Lachig's Perceit Concentrated Wilk Congray. may always be tried and scidon discrete even with the voungest infants. In its preparation the starch of the wheaten flour, which forms one of its constituents, is already converted in great measure into dextrine and grape so are so that the most important part of the work of direction is performed before the tood reaches the stomach.

Whatever he the diet adopted our object is to keep up the intrinsion of the body with the smallest possible amount of mittation to the abmentary circle, and the food, whatever it may be which will produce the result, a the food best suited to the case. Without affection to the point little goods an be effected by the next direct lane. The accessful adjustment

Thus, the best mostly, followed in a model wire pointed, can be obtained of the manufactor, with it from street, finalisms

of the diet, an adjustment in which the quality and quantity of food to be allowed for each meal are accurately adapted to the powers and requirements of the patient, is a matter, which can be properly learned only by experience, and which often makes large demands upon the tact, the ingenuity, and the patience of the medical attendant. This experience every one should labour to acquire, for without it success can seldom be attained in the treatment of the chronic functional derangements of young children.

In all cases, if the patient be a sucking child, he should be limited strictly to the breast; or if he have been only lately weaned, the breast should be returned to. If from any reason a return to the breast is impossible, our great trust should be placed in cow's milk, more or less conjously diluted with lime-With children under a year old milk is very seldom found to disagree. If the child be no more than six months old, nothing should be allowed but milk, or some preparation of milk, as milk and lime-water (equal parts, whey with cream, or milk and water thickened with isinglass,1 or with Liebig's food for infants, in the proportion of one to ispoonful to four ounces of fluid. By using the e-different preparations a certain variety can be introduced into the diet, and the must should be so regulated that the quantity taken on each occasion, and the length of the interval by which the meals are separated, may be properly proportioned to one another and to the state of the . patient. The Liebig's food should be given not offener than twice in the day, and if it excite flatulence, or if any sour smell be noticed from the breath or exacuations, the quantity of one tenspoonful should be diminished, or the food should be even? discontinued altogether

Beyond the age of six months a little weak beef or yeal tea, or the yolk of one egg unboiled, may be added to the diet. The egg is best digested when beafen up with a few strops of brandy and a tablespoonful of cinnamon water, as in ordinary egg-flip. As with younger infants, the quantity of food to be given at one

I singless is useful for its in chancil action in separating the particles of calcin so as to prevent the termation in the stomach of a large dense indigestible clot. By this me its the case in is inely divided, and its clots resemble more the floreulent congular of breast-milk.

time my t depend upon the trength of the child and the condition of his tools

If the clifd becover twe've neaths old very posting activity of transposes to all may one time the venture ray to a fix it soften a rate. The hot town in which the ray for eventual will both d wheaten flour, of which one tea pointed a all the hodd be allowed at one time propored carefully with make

So long us finly is well borne the arrangement of the datase computatively unleasy task, but in the net uncommon these of cases where notly is difficult of the ostron and can only be taken in very small quantities, a different dictary must be appointed. These cases undly on in a historiest dictary months of two years old. A good scale of diction a child of a year and a half old in whom this peculative is noticed as the following, consisting of tive small in distinctive twenty-four hours.

1st Medl. --One teaspoonful of Luchig's food for intents (Mellin's dissolved in four ounces of milk and Larley-water regular parts).

2d Meal - Six mines of hoteless of the structle of a pound of fillet of heet to the part

3d Meet -Six ounces of fresh whey containing a table pleanful of cream. ••

4th Meal. The anhealed yolk of one egg, plain, or be sten up with a table-poinful of cum amon water, a little white sugar, and titteen drops of branchy.

5th Med Safte as the first

In this diotary the first and the fifth meals contain a small quantity of milk. If that he forms not to agree, the food may be dissolved in burley-water alone, or dissided with an equal quantity of yeal broth or yeal broth alone may be given. In any case the quantities recommended should not be exceeded, for it is wise, at any rate at first to be spring rather than liberal in regulation, the allowance of final. It is better that the child should be longery than overloaded and or long. The stools retain their party of material is evid at that the food taken remain in great part unding fed,

If the milk agree it can be gradually mereased in quantity, and as digestica improves which it will do after a few days of this carefully regulated diet, other articles of fool can be

introduced, as roast mutton underdone, and well pounded in a mortar; the flower of cauliflower well boiled in water, or stewed with gravy until very tender. In the use of farmaceous foods great caution should for some time be exercised, and they should be given sparingly until convalescence is completely established, and the stools have reassumed a perfectly healthy character.

In these cases, and indeed in all cases where a special diet is recommended for children, a dietary as given above should be written out by the medical attendant. Not only the kind of food, but the quantity to be given for each meal, and even the hour at which the meal is to be taken should be duly set down. so that no excuse may be available for neglect or misapprehension. It cannot be too often repeated that in cases such as these it is upon the judicious arrangement of his food that the recovery of the child depends, and that where the diet is properly selected the exact medicine to be ordered becomes a matter of comparatively secondary importance. Even without the aid of drugs at all, the digestive powers would no doubt in many cases speedily right themselves under such a diet as has been sketched out above, but recovery is materially assisted by a judicious selection of remedies. It is well to commence the treatment by an and rient dose of iliabarb and soda, to clear away any indigestible feed which may have remained in the bowels, after which the lasative should be followed up by a mixture containing an alkali with aromatics. It is difficult to over-estimate the value of . alkaline remedies in the treatment of digestive derangements in In all children in Intants especially, there is a constant tendency to a si tendentation of their tool. This arises partly from the notion of their det into which milk and farimoron may receive a larger, putty from the peculiar netives of the fact finds which pour out an alkaline eccusion to college of the American of farmaceous food will there's combe not term . t . M is and tooke formed which " muliter the time in a met. I e to the lot section create to reacted to the area of a zing the send products of this ferment of a man of the area to the too abundant Section to the tradition to the it it list jet shor wala may part proto Te preferred, as to great at the experience there is I in a general test to a the natural start of children, it may

be complete ble as a medicine than a state of the restriction at the fronte objects home thereby the with an atometry, exercite maximized by a state of that the dock health be taken in least or and a maximized of the medicine health any electric or at a state of the restriction of maximized at one electricial.

If the stood are brogram tare product prime to a serious spring of the submittate of branch branch branch and a serious and a much branch bran

It is important that the aromate he not empty I from the grantent This class of remonstrate he not empty to the theorem and those cases of delegantal derivations refer to the grant and spasing resulting from attracted so retain an language to be a are present to uncrease the discombat of the potent. Such dyspeptic phenomena are usually rapidly relieved by the notest these agents, and the employment of an order annual error way-sord, or even of fine time of a quarter and more of the wall be found of increase as with a material expent of a large of the employment of

So long as the forme remains that I or the notion of smelling, the alkah should be per coll with and the the also and soda powder can be repeated every that amounts that the the thought do include at the ane true to a main treatment tiggitate of non and ammonia in do ye of two strines can be added to the mixture. Tincture of mix voingality also a stall in one drop dose.

The so-called alteratives are in the eigens of little value for it is no good attempting to stimulate the janctions of the liver by cholagogues. Under the if a of anticuls and aromatic, with an altered diet, food soon by institute discreted and the appearance of the stood's becomes more to delive. After it no and preparation, such as the perintrate of soon with a diet intro-and may be given with a stay.

A point which ment not be over it is in the sense is attention to the action of the skin. In all abdominal brance ments in childen the caramons conclours option is up to be uppered early, and the skin soon becomes dry too be and bar by When

this is found to be the case, the child should be bathed every evening with hot water, and be then freely anomated with warm clive oil. By this means the suppleness of the skin is soon restored. Warm clothing should be worn, with flamed next to the skin; and as an additional precaution, to guard against the risk of chills, an ample flamed bandage should be applied as a protection to the belly.

# ON THE USB OF ARSENIC IN BRIGHATIVE DASPLESIA

### IN TORN C. THE METERS WIT TORN

Or knowledge of the action of aronic and its components, when given in contrast the decree open the mesons in the soft the body, would leadly bed us to expect much contrast administration is a remain for interest dypoper.

It appears, however, that are not has been fined in some of the forms of involved desperpia, and there is pleate of goal evidence of its cardive powers.

Dr Ruger ay, There are by revedes to be a self in many directification continues from a continue to the testing dyspepsor this play is in recommends the administration of one drop of Fowler's a enteal solution, hortly before feed. Another authority, Dr. Wilson, Fox, while mentioning the fact that meens is advised by many as a valuable drug, in curing chronic catairh of the stomach, says that his own expenence of its use has not been saif factory, and it extrainly aggravates the affection, in cases to which it is not adapted. The writer of this paper is able to endorse fully the statements of both of these physicians. There are eases of initative dy pepsia where an seme in very small doses seems to surpose in ematice power every other in divine, while, on the other hand, cases are met with apparently industing the use of arsenie, and yet when the drug is given increase of greene rentation follows so speedily and so constantly, that no doubt remains but that the endoure is doing harm and politavatant the complicat

The best way perhaps to illustrate the action of artenic in dispepsia, will be to relate likely a few cases where the drug was tried, and the reader will see with what is suff

Mr M-, aged 52 years, thun, of rather anxious look, been

dyspeptic for many years. He has pain after taking food, and flatulence, with acidity, and had taster in the mouth, headache also, restless nights, loss of appetite and oxaluria. Tongue rather dry and clean. Magnesia with bismuth, charcoal, nitromuriatic acid, tineture of nux vomica, and sundry other fredicines were tried in this case with no real benefit. Iron also was tried, and latterly inth of a grain of the arseniate of iron was given in a pill twice a day, with the effect of decidedly increasing the gastric irritation; and the patient gave it up and returned to pepsine and mineral acids, which seemed the most useful of the medicines that had been tried.

Case II, was that of Mrs. W——, a hospital patient, who had for many years suffered with gastric pain and vomiting. She was perfectly unable to touch meat, and lived on small quantities of milk. The tongue was small, with red-papilla projecting through greyish fur. Face apt to flush; not much wasting of the body. Here the usual list of stomach medicines was given; none did any good, except todade of potassium, and this only for a time. The end of today does of Fowler's solution in half an ounce of infine columba was to allay the pain, to stop the vomiting of the tool and to enable the patient to eat and digest small quantities of mutton. The tongue seemed to expand, become chance, and lose its initiable look. The patient took the arsenic for one time before she felt able to do without medicine, and I can trace by that one month of arsenic did more good than five mental it to discent with other medicines.

Such I and it, was mother similar case. Stomach very much be, up to I kind of tood, tongue small, contracted and to be touched to be post lowler's solution arrested the vomiting, and a conjunct the remody with great advantage.

Mark to the channel platheses, and every morning at the control of power has at the stomach and vomiting of the control of the

So far as my present experience goes, I should say that the more purely local the gastric symptoms, the better is the chainer of arsenic doing-good. When there is much general exhausten of system, with disordered urine or mainlest hepatic comes trong arsenic is not of much premise as a remedy.

The small pritable tongue, with properting papillar and yellow or grey fur, indicate ansenie; youniting and burning pain after food also point to the use of this drug. The do e must be a very small one, say one drop of Fowler's arsenical obtains, and it this does good on no account should the do ele increa ed in hope of forwarding the cure. Whether the medicine be given before or after meals does not seem to me an essential matter, but my preference is rather in favour of its use before the food. Finally, I would mention that I shave generally made it a rule to give to the patient half an owner of the infus, calumba alone three times a day for a week, and then I add the drop of ar email solution; when a patient has been taking a variety of medicines it is well to do this, and then there is no mistake as to the effect of the arsenic.

# ON THE TREATMENT OF HERPES CIRCINATUS BY LOCAL ASTRINGENTS.

BY CHARLES H. ROBINSON, M.R.C.S.L., L.K.Q.C.P.L.

In moneyrator of Anatomy to the Ledwick School of Medicine; Monter of the national society of Irchend, Pathological Society of Dublin, && de.

Herris circinatus is essentially an affection of youth, cases seldom occurring in adults. It is characterized by an eruption of vesicles, which form circular, oval, or semilunar patches, leaving the central portion of the skin unaffected. The patches are of different above, from a fourpenny piece to that of a half-crown, or even larger, and are net with most frequently on the dace not kelb t, tore-arms, and shoulders

In its milder forms here scirematus, according to Neligan's and other authorates on affections of the skin, disappears in eight or to days but its duration is more usually prolonged for three or four weeks. If the patches are simultaneous in their éruption, the affection is generally slight; but when they come out it does not it discuss is prolonged by the repeated eruption of to have professed is prolonged by the repeated eruption of to have professed in the scale set running an independent course, as the latter case the discuss often becomes chronic, let us exercitionals senatimes months.

I can der in both these forms that treatment by local a in the property of the case of the

I shall now detail, in as condensed a manner as the subject will admit of, a few cases which lately came under my notice, and in which this method of treatment was used.

CASE I.—14th February. Charles F——, aged 15, I saw this morning with a cluster of herpes circinatus on forehead and behind left ear, circular in shape. Each spot touched with iodine tincture. 15th Iron tincture applied to each spot; itching less. 18th. Sulphate of copper used. 20th. The spots on forchead and behind left ear are gone, but two fresh patches have appeared—one at angle of mouth, the other on left cheek. The sulphate of copper was daily applied, and on the 24th he was cured.

CASE II.—16th March. C—— B——, aged 17, I saw with a herpetic patch (crescentic) under one axilla; applied sulphate of copper to it. 19th. Same treatment continued. Several smaller patches have appeared, some on back of neck, others in axilla; tincture of perchloride of iron to each spot, and on the 23d March he was free from them.

('ASE III.—8th April. James T——, aged 25, came to me with four patches of herpes circinatus on right fore-arm; tracture of perchlorade of iron applied to each. 10th Itching gone. 13th Several new spots have appeared On the 18th April he was cured.

Casi: IV—4th May. I saw James Y——, aged 15, with several spots of herpes circunatus on right side of upper lip and on the chin; tincture of iron applied. 5th. A great number of spot, have appeared since yesterday; to use zinc ointment twice daily. 6th. Face covered with the eruption, spots between the eyes, on forehead, cheeks, chin, &c. 8th. Used the pen bloride of iron instead of zinc ointment; on the 13th May cured.

Case V.—5th May. Charles F—, aged 16, came to me with three herpetic spots on left cheek; applied sulphate of copper to each. • 7th. Several new patches have appeared; opened each vesicle as it appeared, and touched the centre with blue-stone 8th Another patch on left shoulder; tineture of iron applied to each. 10th • Two new spots on right hand; tineture of rodine to each. 12th. Cured.

CASE VI.—24th August, Edward Q——, 28 years of age, I saw with a herpetic patch, size of half-a-crown, on right arm another smaller one on left aim; tincture of perchloride of iron capplied. 26th. Itching gone. 27th Tincture of iodine used 20th. Another spot, size of a five-shilling piece, on back; same to itment was used, and on the 4th of September he was cufed.

It will be seen from this that the result of the astringent treatment was as follows:— Case I. lasted ten days; Case II. seven days; Case III ten days; Case IV. nine days; Case V. seven days: Case VI. ten days: making an average duration of less than nine days each, which, considering the nature of the cases, all being of the relapsing kind, I believe to be very favourable.

It may be remarked that although herpes circumatus is a discate essentially of youth, yet two of the above cases were in adults—one and 25, the other 28 years of age.

I may mention that all these patients were inmates of the same institution, being under the same hygienic and dietary arrangements; but how it originated I am unable to say. No special cause can be assigned for it; sometimes, according to Cazenave, it is supposed to be produced by cold, or by the application of irritating lotions.

That herpes circinatus is contagious, is, I believe, now generally admitted, although formerly denied by some eminent dernatologists, tezenave among the number. That the above tages prove its infectious powers I do not affirm; still I think they give use to a strong suspicion that such was the fact, especially when it is remembered that they were all in constant communication, using the same towels and washing appliances, and therefore very highle, if it was contagious, to take it from one another.

# NOTE ON ATROPIA AND ITS PIN SIOLOGICAL ANTAGONISTS.

BY ROBERTS BALLHOLOW, AM, WD

Is the February \*number of the Productioner just record tion London, I find a piper by the Frace 'the Afronau as a Physiological Antidate to the Possoner A trenet Physics and No one can be more sensible than I of the ore in dity and value of Dr. Fraser's researches into the player to and on I the operator ? nefforms of remedies, but I must be how to extreme post to this particular research that he be to the art got to When Dr Paser commenced by mach, the make the already completed a mix of the place has all only in that atropia. My juve rigations were all mutted for the Nite and Medical Association in an estry, to which we award from of the annual prizes for 1869. This paper may be found in vol. 33 of the Transactions. It is true I have not to ited the adject or the musterly manner characteristic of Dr. Prisers work, but the results are the same as those subfiguratly obtained by him, This question of priority is, however, of lattle consequence. But I may wenture to express the belief, that the conclusions of an independent observer in another part of the world may add some weight to the experiments of Dr. France. It is with this yew that I now submit to the readers of the Proceedings, the c portions of my essay laving relevance to the e-points.

#### ATROPIA AND PHY\_O-THORIA !

The opposite effects of atropia and play ost gmis on the pupil are so striking, that a physiological antagonism, extending

I The Physostigmer to that nones employed in these x and his was not be you. Merck, of Harmstalt, who capes a decree ity had reported so a the continent of Funge to Minaphamacents digreguet of

th oughout the whole rings of their action, would seem to be probable. The dilutation of the pupil as produced by atropia is due as shown in the preceding pages to contraction of the robusing fibres of the ris. As the circular fibres of the ris are innervated by the third part, the contraction of the pupil produced by physistramic must be due either to paralysis of the sympath them to excitation of the splaneter muscle. These two agents must be therefore, act oppositely upon the sympathetic system or one must be upon the sympathetic and the other upon the parayous extern of animal life.

In first of I dinburgh has published an admirable paper upon the physiological effects of the extract of Calabar bean. I shall as I may alt of his very exhaustive labours assuming that which has informed us of the action of Calabar bean is entirely as at I take this position the more readily, because my own observation with this ment are entirely in accord with Dr. Insorder to a more ready comprehension of the result ons which ensue when these two agents are conjointly admirationed. I place in parallel columns the principal physiological effect of each.

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Lyst rift I is a number 12 stage to a front by substitution in important. The under a left income fested themselves in a ten number dispute the factor in discussion of the faces dilutation of pulling units in

of hind extremities; sensibility to touch, to pain, and especially to temperature diminished; reflex movements normal. Injected then i of a grain of calabarine. In five minutes decided contraction of the pupil occurred; paralysis of all the muscles of animal life took place, so that the cat hung perfectly limp and flaccid when suspended by the cars; occasional tremors, especially of the limbs, and slight tetanic spasms or irritation of surface occurred, notwithstanding the complete paralysis; respirations grew slower and slower, and after the lapse of three hours occurred only at the rate of one in five minutes; action of heart continued, but gradually lost power and diminished in frequency of pulsations; complete anesthesia of cornea; reflex and accommodative flovements of the eye finally abolished. Respiration consed before action of heart.

In subsequent experiments I varied the proportions of atropia and calabarine (physostigmia) in order to ascertain how far these agents were antagonistic as to toxic power. Thus to a large and powerful cat I administered by hypodermic injection & of a grain of sulplate of atropia, and 1, of a grain of physostigmia. symptoms of atropia poisoning were first manifested, and afterward the effects characteristic of physostigmia, without, however, producing a fatal result. In corresponding doses physostigmia is more powerful than atropia; hence in order to obtain a balance of physiological-affects, sufficient atropia must be administered to produce some dilatation of the pupil, and as physosticmia is \_slower and also longer in action, the effect of the atropia must be maintained by continued use. \* If a quantity of physosticmia, just sufficient to produce a fatal result, be administered, its toxic power may be counterbalanced by atropia given so as to maintain a slight degree of dilutation of the pupil. Large quantities of both these agents, administered simultaneously, so overpower the nervous centres (the cerebrum and respiratory centre) as to destroy life.

The results then of the study of the mutual reactions which obtain letween atropia and physostigmia when administered together, may be stated as follow: —

Atropa and physostigma are not antagonistic as regards their action upon the muscular system of animal life—paralysis being induced by both. Atropia produces paralysis by destroying the

muscular irritability and the excitability of the motor nerves; physostigmia by paralysing the spinal cord.

Atropia and physostigmia are antagonistic as regards their action on the sensory nerves; atropia destroying and physostigmia, heightering the sensibility of these nerves.

They are antagonistic as to their influence over the respiratory movements; atropia increasing and physostigma retarding them.

They are antagonistic in their action upon the heart; atropia producing excitation of the cardiac ganglia, and physostigmia paralysing these ganglia.

They are opposed in respect to their action on the sympathetic; atropia producing increased action of the sympathetic; physostigmia paralysing this system.

They have opposite effects on the pupil in virtue of opposite effects on the sympathetic; atropia dilating the pupil by its action on the radiating fibres of the iris; physostigmia contracting the pupil by paralysing the radiating fibres.

A very singular effect, which I was not prepared to find, is the peculiar exaltation of the reflex faculty produced in fregs, when these agents are administered together - a sudden irritation of the surface causing tetanic rigidity like electric shocks, the muscles immediately afterward resuming their very relaxed and flaceid Atropia sensibly weakens, although it does not abolish entirely, the reflex faculty; physostigmia destroys the reflex faculty; yet the combination of the two agents produces effects not unlike those of strychnia. The analogy is preserved even after death, for post-mortem rigidity sets in at once and is very decided. The tetanic spasms must not be confounded with the tremors which are characteristic of physostigmia. These tetunic spasos are less marked in warm-blooded animals, but they nevertheless occur to a limited dutent, and after death a murked degree of rigidity exists, the head and neck being curved back and the feet turned in-

Dr. Finser also alludes to the reputed antagonism between atropia and prussic acid. As I have, in the essay referred to, examined this question, it may be worth while to submit my remarks upon this topic.

## ATPOPIA AND PRUSSIC ACID.

It has recently been asserted by M. Preyer that atropia is the physiological antidote to prussic acid. He was conducted to this conclusion by reflecting upon the mode in which prussic acid produces death. As prussic acid in large doses causes paralysis of the heart, he assumed that are agent which would paralyse the pneumogastric, the inhibitor nerve of the heart, and at the same time stimulate the central nervous apparatus of respiration, would prove to be the true physiological antidote. He, however, prudently restricts the use of atropia to these rare cases of poisoning by prussic acid, in which "there is approximated the heart remains beating."

There are various theoretical considerations opposed to this view. Piotronosky affirms that he has produced tetanic spasms of the heart and wrinkling in the transverse folds of its external fibres, by direct irritation of the vagus. This experiment is submitted in proof of the statement that the external fibres of the heart-are innervated by the vagus and the internal by the sympathetic. If this be the case, it is obvious that an agent which simply paralyses the terminal filaments of the pneumogastric, would not supply the effect required. Moreover, division of the pneumogastric produces decided slowness of respiration, after having for a short period quickened it somewhat. Further, atropia has but little influence over the respiratory movements. . Its real power consists in excitation of the cardino ganglia of the sympathetic, and whatever of physiological antagonism there is between atropia and prussic acid must be referred to the difference in their action upon the heart.

Theoretical considerations must yield to the demonstrations of experiment. M. Preyer has demonstrated our rabbits and guineapigs, that the subcutaneous injection of small quantities of atropia is an unfailing antidots to prassic and if employed quickly after the injection of the and. I have submitted this statement to the test of experiment.

Experiment I passed into the throat of a pigeon, by means of a pipette, 5 minums of medicinal prussic acid (U.S.P.), and mainediately injected  $\frac{1}{24}$  of a grain of sulphate of atropia. The bird had in a few minutes convulsive movements of the head,

neck, and eyelids; fell down, and expired in a general convulation of a tonic character

The fatal result in the preceding experiment may be attributed to the atropia. In order to obviate this objection, I changed the order of administration of these agents. As pigeons are not very susceptible to the action of atropia, I also increased the quantity administered by subcutaneous injection.

Experiment —Administered to a pigeon by subcutaneous injection one-eighth of a grain of atropia. When the influence of this began to be manifest, passed into the gullet by a pipette 5 minums of the medicinal hydrocyanic acid. Death ensued precisely as in the first-case.

It may be urged against these experiments that pigeons are not suitable subjects. As cut, are readily affected by both these agents, in my subsequent experiments I employed these animals. The details of the experiments and the results being so uniform, I need narrate but one as a type of all

Experiment—Administered by subsutaneous injection to a cat one-fourth of a grain of atropia. When the symptoms characteristic of atropia porsoning were produced. I poured into the gallet 10 minims of a medicinal hydrocvanic acid. The cut fell upon her side, had a few convulsive twitches of the extremities, uttered a sharp cry and expired.

In these experiments on cats I preferred to bring them under the influence of atropa before administering the prussic acid, because of the great difference in the rapidity with which these agents act. If there really existed a true physiological antagonism between them, there could be no difference in result whether atropis or prussic acid were first administered. It is clear, I think, that no such antagonism exists as supposed by M. Preyer, but it may be admitted that atropia will be useful in counteracting the depression of the heart's action in those rather exceptional cases in which the symptoms of poisoning are delayed, or in those cases in which just sufficient prussic acid has been administered to produce dangerous symptoms, there being time enough to employ cardiac stimulants.

[Owing to the great pressure of original papers, the Editor is obliged to postpone the commencement of the papers on Wines in Disease till next month.]

### Mediews.

Report of the Committee on the Relations of Alcohol to Medicine. By John Bell, M.D., Chairman. Extracted from the Proceedings of the American Medical Association. Philadelphia: Collins. 1869.

We know nothing of the circumstances under which this report was called for, and as Englishmen we may be forgiven if we are ignorant of the precise degree of scientific authority which attaches to Dr. John Bell in America. But the document before us purports to come with the whole authority of the American Medical Association, and thus bears, on the face of it, an apparent imprimatur of the medical profession of the United States. It is impossible, therefore, to avoid discussing it, although we must confess our surprise that American medical men should have been willing to sanction such a series of statements and arguments as are here put forward.

The report, we must say in the first place, bears evident marks of a foregone conclusion on the part of the writer; it can hardly be doubted that, being himself committed to testotal principles, although he is willing to concede that alcohol may be a useful medicine under-particular circumstances, he is determined not to admit its claim to be a food either in the stricter or the looser. Interpretation of that word. The consequence of this is that he fails altogether to treat the subject with that dispassionate calmness which its great importance demands, and that he is constantly assuming the certainty of positions for which, in reality,

no proof whatever exists.

Dr. Bell proposes to treat of alcohol in its relations to medicine finder the special headings of Hygiene, Etiology, Therapeutics, and Medical Jurispindence. Under the first department, of course, he deals with the effects of alcoholic liquors as an element of ordinary diet; and it would seem obvious that for any scientific investigation of this subject it was necessary to limit the inquiry strictly to the results of a femperate use of these agents. On the contrary, however, Dr. Bell at once introduces considerations relative to the indisputably permicious effects of large potations. But what is still more objectionable, he from the first assumes the fact that alcohol is a poison—i.s. universally and essentially—which is, of course, one of the points

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most energetically contested; and he expends a great deal of declaration which should have been reserved for the topics which come under the leading of etiology, or the effect which alcoholic escesses undoubtedly exert in producing disease As regards the disputed food-value of alcohol, it is curious that Dr. Bell appears quite unconscious of the position in which matters at In sent stand. He is obliged, in one place, to refer to recent researches which distinctly prove that all but an inconsiderable quantity of the alcohol which we take undergoes oxidation in the lady; but he fails to see that this is so, and that in that case probability is altogether in favour of the belief that it acts as a force-producer within the body. We can scarcely be wrong in supposing that this confusion arises from an inadequate appreciation of the facts of modern physiological chemistry, since we find that while ridiculing Liebig's theory of food, which he says has been upset by Fricke (sic.) and Wislicenus, we find him, on the other hand, quoting with approval (at second-hand) that very portion of the Liebigian theory which has been most completely shaken, namely, the notion that muscular force is derived mainly from the combustion of nitrogenous matters suspicious also that he speaks of alcohol as a "liydrate of carbon." But the worst point of all is, that although Dr. Bell has evidently referred to the researches of Schulmus, and of Anotic and Dupré, which for the first time attempted the quantitative estimation of the alcohol excreted in an unchanged condition, he allows himself to bring forward again the well-worn, but now thoroughly discredited, experiments of Lallemand, as if to still leave open a loophole for the possible retention of the theory of the total elimination of alcohol, and the consequent . deduction that it acts as a simple poison! We protest against . this course, as unfair and unscientific in the highest degree. is as certain as anything can be that all but a small portion of the ingested alcohol undergoes oxidation in the body; and this being the case, the onus lies on those who deny the alimentary character of alcohol, of explaining how a hydrocarbonous substance of this kind, taken into the body in quantities of from half an ounce to two ounces per diem, can fail by its combustion to generate force. That the force thus generated does not appear as heat (more especially as heat capable of being measured at the periphery) proves nothing; there are many different ways in which it may be applied to vital purposes within the organism without producing any mensurable elevation of temperature. Dr. Bell seems to be still haunted with the notion that an aliment must pass into the structure of the tissues before it can produce force; but we need hardly tell our readers that the whole tendency of recent physiological experimentation has been to prove that this is a delusion—that as regards muscular force,

for example, there can scarcely be a doubt that the bulk of the dynamic work is done by the oxidation of hydrocarbons and hydrates of carbon derived from the food, and circulating in the

blood.

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In short, it is necessary to insist, as against Dr. Bell and all other people who argue in the same fashion, on the following points:—(1.) It is certain that alcohol, equally with the hydrocarbons and hydrates of carbon of ordinary solid foods, is oxidized within the body. (2.) As regards that part of ordinary foods. which goes to the building up and repair of tissue, all recent research goes to discredit the idea that special tissues are directly nourished by food ingredients that exactly resemble them in constitution: consequently there is no more à priori reason that alcohol should not assist the nutrition of tissues into which fat enters, than that fatty or saccharine foods should do so a matter of fact alcohol in large quantities does generate fat in the blood, to an extent perceptible to microscopic inspection; and it is surely possible that the fatty elements of tissues may be directly increased by the action of dietetic doses of alcohol. No doubt, in the case of alcoholic excesses, this would run in the direction of degeneration; but it is quite conceivable that, taken in moderation, the alcoholic hydrocarbon helps the formation of the most important kind of fat, that which assists in the building up of cells of every kind, and which in the nervous system is of preeminent importance. (3.) The only argument of importance that can be urged against the probability that alcohol by its oxidation in the body generates force which directly assists vital function is the apparent fact, that the elimination of carbonic · said from the lungs is, on the whole, rather diminished than increased by alcoholic liquors. But there are many other products. of the oxidation of alcuhol besides carbonic acid, and although analysis has failed to discover these as yet, it cannot be pretended that snything like an adequate search has been made for them. In particular, the muscular juice has never yet been adequately examined for this purpose.

As recards Dr. Bell's remarks on etiology, or the causation of disease by alcohol, we have not much to say: the greater part of his allegations are such as all physicians are agreed to admit as regards the effects often produced by alcoholic excesses. Two things, however, we note as serious faults. In the first place, he repeats the usual repolar statements of the teetotal party as to the proportion of crime and insanity which is due to drunkenness, without an attempt to sift the complex causes (of which drunkenness is only one, and often a secondary one) that predispose large masses of the population to a reckless mode of life. And secondly, Dr. Bell repeats without qualification the old assertion that alcoholic excesses are responsible for the great

majority of cases of cirrhosis of the liver and of granular disease of the kidney; a proof that he either does not knew of, or unfairly ignores the positive statement of Dr. Dickmon, one of our highest authorities, that Glasgow, the most drunken city, perhaps, in the world, enjoys a very remarkable immunity from these diseases, in comparison with other towns. Our own experience on this question entirely confirms the opinion of Dr. Dickmson; and although we grant that a tendency to filmoid degeneration of viscera is one of the characteristic consequences of prolonged alcoholic intemperance, we are convinced that the senious and fatal forms of cirthotic liver and kidney disease are not caused by alcoholic intemperance without the aid of some other very powerful factors, of which anxiety of mind and

physical destitution are probably the most important.

Equally unjust, we are sorry to say, is Dr. Bell's mode of dealing with the opinions of those who think more highly than he does of the therapeutic action of alcohol. For instance, he constantly speaks of the present representatives of Tedd's opinions as if they were in the habit of recommending, uniformly, very high doses of stimulants in scute diseases. The very essence, however, of the position assumed by the editor of this journal, for instance, is that there is no uniformity whatever in the dose appropriate to cases of the same scute disease in differenta. individuals. It is true that in certain instances, such as these which Dr. Bell has quoted from "Stimulants and Narcotus." very high doses of alcohol have been found to produce remarkably good results, and Dr. Anstie has insisted particularly on the fact that in such cases none of the intexicative effects of In subsequent papers he has shown that alcohol are produced. it is possible, by the use of the sphygmograph and of chemical. tests to the urine, to detect much finerenuances of the intoxicative effects of narcotic doses than could formerly be perceived. and with this improved machinery of observation he has still found that in particular cases of fever, of pagements, as enormous doses of alcohol fail to produce the elightest sign of narcotic depression, while they sensibly improve the particular particular in the pa pyrexial symptoms. But he has no less streamously urged, and demonstrated by the same improved tests, that many other cases, nominally of the same diseases, require little or no alcohol, and immediately display their unfitness for it by exhibiting at least the slightest degrees of intoxication. It is therefore unmeaning for 1)r. Bell and others, who are opposed on theoretical grounds to the free use of alcohol under any circumstances, to treat as andiscremenate, a form of stimulation that is based on calculations which, however imperfect, really represent the only attempt that has been seriously made to lay down scientific fules.

We cannot afford further space to discuss this elaborate and yet

unsatisfactory report, but we must again express our regret that the singere and honourable opponents of alcohol will persist in a mode of argumentation which can lead to no possible good. the teetotallers in our profession had their eyes open, they could not but perceive that they only deepen the gulf between themselves and the mass of unprejudiced physicians by special pleading which ignores obvious facts. We beg to remind them, in concluding this notice, of a few maxims, which are truisms, but which they are continually neglecting. Firstly, when one investigates the hygienic effect of an article of diet which is almost universally employed, one ought to inquire, not what is the result of its excessive and extraordinary consumption by a small fraction of the population, but what is the state of health of the immeasureably greater numbers who take it in moderation. before laying down absolutely that such and such an agent is food, and such and such another is not, it would be proper to come to some understanding as to whether there is any scientific definition, that will hold water, of the limits of the alimentary group of substances. (We challenge Dr. Bell to quote or to invent one) Thirdly, it would be well, before imputing confusion of ideas to those who speak of stimulation as if it included at once the reduction of excessive or convulsive actions, and the · restoration of fatigued or paralysed organs to activity, to ask oneself whether this double series of actions is not daily observed to follow the ingestion of easily digested common food-the typical stimulus-in diseased conditions ?

Winter and Spring on the Shores of the Mediterranean. By J. HENRY BENNET, M.D., &c., &c. Fourth Edition. London; Churchill, 1870.

The Climate of the South of France. By C. T. WILLIAMS, M.D. Oxon., F.R.C.P., &c., Assistant Physician to the Brompton Hospital for Consumption. London: Longinans, 1870.

The Chimate and Resources of Modeira. By Michael. C. Grabman, M.D., F'R C.S., M.R.C.P., &c., &c. London: Churchill, 1870.

The three books before us illustrate with considerable force the unhappy differences of opinion which exists in the profession concerning that important matter, the climatic treatment of consumption. There are not many points on which all three authors are agreed, but there is a much greater accord between Dr. Bennet and Dr. Williams than between either of these and Dr. Grabham; while between Dr. Bennet and Dr. Grabham, especially, there may be said to be nearly total opposition and contradiction. Moreover, the sain time difference between the latter is obviously—rather top obviously—sharpened by the interest which is

naturally taken by resident practitioners in weal health-resorts in the prosperity of their respective colonies. Dr Williams book is at any rate free from this fault, and consequently presents an air of impartiality which is an agreeable change to the reader .

who has perused the other two volumes.

We shall say a few words, in the first place, about Dr. Grabham's book, because it represents that view of the chimatic treatment of phthisis which is least in accordance with the tendency of recent scientific opinion. It is a warm defence of the climate of Madeira, and an assertion of its superior efficacy to that of the now more fashionable health-resorts on the French shores of the Mediterranean; and it takes quite the old ground of argument, insisting our the all-importance of a mild most and equable climate, and deciding and denoutheing, se a mere temporary whim, the modern tendency to seek for comparatively cool and bracing health-perorts in phthiass. It is remarkable that I)r. Grabham seems, quite unconscious of the fact that whether such climates as those of the Riviera are or are not to be considered as finally satisfactory, the tendency to employ them is an indication of a change in medical opinion which there is not the smallest probability of our seeing reversed. The steadily and constantly humid atmosphere of Madeira-does indeed secure a great equability of its chinate, and thus. removes one of the direct causes of catarrh, and of the indirect sources of aggravation of preliminary mischief. Rut it is strange that Dr. Grabham should forget that even catarrh has other frequent sources besides varying temperature, and his experience of Madeira must have been altogether peculiar if he . has not seen plenty of patients in whom the depressing effect of its atmosphere upon the nervous system has, in fact, prolonged and rather aggravated existing tendencies to catarric And, although we are not yet in a position to decide the precise manner in which dampness of soil produces the remarkship prejudicial effects which the researches of Bowditch and Inchanan have revealed, we may be pretty sure that dampuses of the atmosphere, and consequent retention of brancis impurities by it, play the principal part. In fact it may be granted that Madeira has one merit, but it cannot be allowed to have any others." That merit is the softness and equability of climate which allows invalids to pass a considerable time in the open air; and to a few very irritable patients it is a matter of life or death that this chall be accomplished with the smallest possible risk of catching cold. On the other hand, there is direct and positive testimony which Dr. Grabham's own account does not in the least contradict, that there is no sort of immunity from tuberculous diseases among the natives, but very much the reverse. and this is, after all, the consideration which, more and 40 REVIEWS.

more, the profession are learning to accept as the ground for selection of a health-resort in phthisis. In the absence of any facts which could improve the reputation of Madeira in this respect, it is to be regretted that Dr. Grabham has chosen to treat every depreciatory criticism of its merits as if it had been dictated either by extreme folly or by interested hostility. He has not improved the position of affairs, nor will any impartial person familiar with recent work in connection with the pathology and treatment of phthisis be more inclined to send patients

to Madeira from reading his book.

Of Dr. Bennet's book it is rather difficult to speak with critical fairness. The present is a fourth edition, and both book and author are so familiar to the profession and the public, that it is needless to dwell on the eleverness which is abundantly displayed in its pages It is Dr. Bennet's destiny to be a pioneer to scientific discoveries, which it requires a certain amount of poetic imagination to conceive. The tragic side of this tendency was displayed in his revelation of the appalling frequency of inflammation and ulceration of the uterus; the peacefully idyllic strain, which is doubtless more congenial to his feelings, finds expression in his charming descriptions of the phthisisladen sufferer exhaling his deadly malady among the lemon egroves of Mentone. The present edition of his work is, so far as we remember, a considerable improvement on its predicessors; and at any rate it is interesting to know that whereas Dr. Bennet formerly praised Mentone on the strength of its intrinsic merits, he now praises it still more highly, because, after making a painful pilgrimage to a number of other Mediterranean healthresorts, he finds none of them comparable to his first love. The attractions of the look are new very varied; independently of the author's picturesque Tyle, and the easy fluency with which he describes the scenery of such widely different places as the Riviers. Cornes, Sicily, Spain, Algeria, and the Italian lakes, there is philosophic gossip about social matters; there are pictures of pretty Kabyle women, Spanish senoritas buying tickets for the bull-light, and Arab dancing girls; there are occasional bursts of elequence (eg about the revival of Italian freedom); and, after all, these varied ingredients are but the saure to the solid pudding of science, although this last, it must be confessed, appears rather in the form of slices, rechauffe, than of the fragrant rotundity which comes fresh from the pot, Dr Bennet has done good service in introducing Mentone to public notice, but we must say that it is rather irritating to find him ignoring or insufficiently discussing some of the points which are well known to be crucial in consideration of the worth of any place is a sanatorium for phthisis. For instance, as to the question of mountain climates in phthisis, he seems to he far

from superciating the weight of evidence flow accumulated in tayour of the Alpine valleys, for he speaks of the proposed to keen phthisical patients in these districts during the winter as if it were a more visionary speculation, instead of an experiment which in fact has been actually tried with a large amount of success. It is certainly unfain in presence of the carefully reported facts from St Montz and the Davos, to speak of the winter climates of these places as if they were so dangerously uncertain as to render it impossible for plothescal patients to take frequent open-air exercise without risk of acute coupling-On the contrary, it has been proved, on unumpeachable evidence, that the patients in there health-report i are able to take drives hearly every day to sleep with their windows open and to sit in the open air on the sunny side of the house. If mere variability of temperature were enough to condemn a place as a health-resort in phthisis, there is evidence in 11r flemet's awn book, to say nothing of other writers, to show that Mentone is by no means free from such changes. And it is scarcely necessary to say that mere lowness of temperature has never been proved to be prejudicial to phthisis; indeed such evidence as exists is all the other way. Our own experience has been to this effect --(1) pure cold, if the air be dry and tolerably still does no barn indeed, if the patient be properly wrapped up out of doors, and keeps up good heat and also good rentilation in-doors, it seems to do distinct good to the majority of cases. (2) cold und really is dangerous, and there is less minimunity from this in the towns of the Riviera, not excluding Mentone, than there is in the high but sheltered Alpine valleys; (3) impurity of arr, whether with or without dampness, is the most fatal influence of all in developing the phthisical disposition: and, in regard to freedom from this defect, the elevated Alpine valleys at can harrily be doubted, are. distinctly superior to the Raviera health-resorts

We have no wish, however, to assume the position of champions of the Alpine health-resorts as against localities like the Riviera. We are speaking strictly in the critical character, and our argument is not directed against the salubrity of Mentons, but against the apparent prejudice which leads Dr. Bennet to ignore the facts in the our of permanent residence in mountain regions. It would be most unfortunate if his powerful influence should divert the profession from a fair trial of what appears to be the most promising experiment in the treatment of consumption which has ever been made. Let it never be forgotten that, after all, these high mountain valleys (whether at 10,000 feet elevation in the neighbourhood of the equator, or 5,000 feet in the Engadine, or 1,500 feet in the centre of Germany) are the districts naturally free from endemic philipsis and that no other districts—not even the Rivieras—approach them in this

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respect. There is then a strong à priori probability that these mountain districts would prove curative, or at least helpful, in cases of actual disease—a probability which could only be set aside by positive evidence to the contrary. But all the real

evidence is, in fact, directly favourable to this idea.

We have another somewhat revious quarrel with Dr. Bennet. He has given us abundance of picturesque descriptions, most charming, and in general not too highly coloured, of the natural beauties and delights of Mentone. But he has passed by, almost in silence, one very serious defect of this place; we refer to the obstacles to walking exercise. These are very serious to all but the exceptionally robust; and even driving is not possible except within a comparatively limited range. In fact this is a very general complaint among just that class of patients for whom a change of climate should do the most, namely those in whom the disease is of medium intensity and development. When one remembers that at Mentone such patients are condemned to the minimum of exercise, and that even the amusement of sitting still in the open air must be limited to days on which the sea is calm and still, one finds reason to receive his encominums with considerable qualification. In taking leave of his book. however, we must again repeat the experience of our full appreciation of the interesting and varied information which it conveys and of the picturesque way in which he has set forth the claims of a very valuable health-region. We trust that the remarkable improvement in his own health which first led him. to settle at Mentone and advocate its claims before the profession and the public may be fully maintained in future years.

Of Dr. Williams's book we have less to say, not because it is smaller in size than Dr Hennet's, but because it presents fewer -objectionable features. Dr Williams is an enthusiast about the Riviera, and he is, we think, unjust to the claims of Alpine healthresorts. But he is evidently free from bias in favour of any particular place, and he gives, as we think, a much juster estimate of the merits of Cannes, Hyire, and Nice than is afforded by Dr. Bennet. Me notices as regards Mentone, a fault which is too little dwelt on in Dr. Bennet's work, namely, the close and rather stiffing atmosphere And he is fully alive to the fact that the greater possibility of locomotion at Hyères and Cannes goes far to compensate for the comparatively imperfect character of their protection from cold winds. As regards his meteorological theories we must speak with a certain amount of reserve. On pages 29-34, for instance, he discusses the theory of the formation of the dreaded "mistral" His hypothesis describes this wind as a west-north-west upper aerul current from British North America, and supposes that the earth's rotation changes it to a north-west current which would descend to supply the

vacuum caused by the rarefaction of air over the leaded Mediterranean. The devious bitch in the theory is the a sumption that such a current would be prevented from deschaling to supply the partial vacuum caused by the heating and randartion of the sir in contact with the Gulf Stream by the fact that the excessive loading of this air with aqueque varour forms a screen nearly impervious to heat, and therefore himits rarefaction to the lower strata of the atmosphere. Such vacuum as might be formed is supposed to be adequately filled by 'the upper equatorial current, which here descends and forms the south-west wind prevalent in the temperate regions of the Atlantic." This seems to us a hard saying Dr Williams himself is conscious of its cornewhat over-theoretic look, and rustition himself for its production by the necessary of assigning a "cosmical "origin for "so powerful an effect as the mistral." No doubt, however, the greater mostness of the mistral than that . of the "bise," or north-easterly wind preval at Nue, is protanto a support to this theory.

On the whole we think Ir Williams gives a very judicially impartial estimate of the principal and secondary health-resorts in the Riviera and its neighbourhood. And we are glad to see that in the Appendix—which we have to quarrel with as during scant justice to the Engadine—In Williams introduces squesappreciative remarks about Borinio, which, as yet seems to us to have been strangely neglected as a health resort. We cannot help thinking that he might have extended his encomiums, and portited out the probable uses of Borinio as a winter residence to phthisical patients. But we must not expect every one to see as we do about this matter of Alpine climates for phthisis, although we believe there is a good time coming in this, as in some other

matters.

## Clinic of the Month.

Skim-milk Diet in Cases of Fatty Degeneration, &c.—Dr. A. S. Donkin continues his observations on the efficacy of a skim-milk diet in various forms of disease. In regard to its advantage in this, he observes that it affords no pabulum for the development or nutrition of fat, existing either abnormally in diseased muscular fibre, or in adipose tissue in cases of obesity. An exclusively skim-milk diet will therefore, he maintains, be found, in cases of polysarcia and of diseased tissue often associated with it, to be a much more potent and agreeable remedy than the system called Bantingism. He subjoins the following case, in which he adopted this remedy in consultation with his friend Mr. R. Robson, of Durham. Alady was suffering from great dyspaces on the slightest exertion, but without any valvular disease to account for it, and without any other apparent disease except fatty degeneration, which there was good reason to believe had commenced in the heart and elsewhere in the muscular system. The patient had long indulged in an excessively fatty diet and sedentary habits, and she was in a state. A skim-milk diet was prescribed and strictly of great obesity. adhered to for several months, and with a marvellously good The symptoms of angina pectoris soon began to subside, and ultimately disappeared altogether, while the obesity was -remarkably diminished, and the patient enabled to enjoy exercise freely and without inconvenience. (See Lancet, April 30.)

Treatment of Rheumatic Fever by Perchloride of Iron.—Dr. Trestrail, of Harston, in a communication to the Braish Medical Journal, gives a caution in respect to the use of this remedy, to which it is perhaps worth while to direct attention. He thinks it likely that its administration would increase the tendency to the formation of coagula which, already exists in cases of rheumatic fever, owing to the excess of fibrin in the blood in this disease, and hence that its use would increase the number of such complications as urgent dyspical from the plugging up of pulmonary vessels, cerebral symptoms from emboli obstructing the flow of blood to the brain, &c.; to say nothing of the danger of the valves of the heart becoming more frequently permanently damaged by deposits on their surface. He refers to cases, detailed by other observers, in which

symptoms characteristic of such affections supervened under the use of perchloride of iron; and hence contends that the alkaline treatment is preferable, since it tends very materially to lessen the disposition to such complications, and to subsequent disease of the heart. (See British Medical Journal, May 7, 1870.)

Replantation of Teeth in Chronic Periodontitis.—There is nothing perhaps so unsatisfactory to the dentist as the extraction, in the general run of cases, of teeth for the relief of periodontitis. though it is followed by the cossation of acute pain, especially in the gums, since the teeth themselves are sometimes almost perfect. or at least in a condition fit for doing good work for many years. The success, therefore, obtained by Mr. Coleman in replanting teeth in the disease in nuestion, will be received with unquestionable satisfaction, and the plan no doubt largely imitated. method of procedure is to remove the diseased tooth, if carious, to clean out its pulp and fung cavities, filling them up, after cleaning " with carbolic acid, with cotton wool impregnated with the same; then to fill the pulp and carious cavities; next to scrape the fangs free from all diseased periosteum and cementum, but preserving the mucous membrane about the neck; and after bathing in a solution of carbolic acid the tooth, as well as the alveolus, to return the former to its place. Mr. Lyons has carried out this practice in fourteen cases for Mr. Coleman, mith success in the case of bicuspids and molars, no mechanical appliances being used to keep the teeth supported until they had become firm. Mr. Coleman believes replantation will become the legitimate mode of treatment for chronic periodontities. . (See Lancet, May 7, and "Transactions of the Odontological Society," March 1870)

Improved Operation for Fistula in Ano.—Instead of the bistoury impinged upon the linger in ano, and brought down through the sphincter with some difficulty, Mr. Weeden Cooks has employed a scissors, the blades being separately passed into the fistule and rectum, and then connected by means of a moveable screet. Mr. Cooks operated with this instrument, which was made at his reggestion by Mosera. Weiss, at the Royal Free Hospital on the 23d of April. Having introduced his fingers into the rectum, he passed one blade of the instrument into the fistula up to the extreme point; he then passed into the rectum the other blade up to a corresponding point. The two blades were then connected by a small screw, and with one rapid acissors-action the operation was completed in a second of time. The pain was infinitely less than that produced by the bistoury. As the position required for this operation renders the use of chloroform very difficult, it is well known that the shrinking of the nations often gives trouble to the surgeon, so that the

rapidity of this method of operating is important both to the patient and the surgeon; and, in the case referred to, its efficiency was verified by Mr. Cooke's colleagues who were present.

New Mechanical Aid to Labour.—Dr. Protheroe Smith. after referring to the amount of force exerted by the uterus and abdominal muscles in the act of delivery, as estimated by Professor Haughton, namely 541 lb. by the former and 523.85 lb. by the latter, points out that the difference between the easy and rapid delivery of woman in the savage state as compared with the lingering tedious, and difficult delivery of civilized life, lies in the fact that in the savage the lumbo-abdominal muscles are much more fully developed. The defect of development of these muscles in the civilized woman he attributes, in part at least, to the custom of suspending the clothes by a cincture around the waist, by which the structure of the muscular tissue becomes deteriorated. To obviate and subsidize this defect—in a word to supply the want of voluntary muscular force during parturition he has constructed and recommends the employment of an instrument consisting essentially of a metal framework or support fitting the hollow of the lumbar spinal region, to the lower part of which springs are attached encircling the belly and joining in front in a pubic pad, to the middle of which is attached an abdominal belt, and to the upper part of which are attached a pair of springs passing round the body beneath the axilla, and terminating in a sternal pad. I)r. Smith gives a series of cases in which the application of this apparatus, which must, of course, . . be accurately adapted to the figure of the patient, materially facilitated the process of labour. (See Lancet, June 4, 1870.)

New Operation for the Cure of Varicose Vains.—Mr. Stokes has been recently treating varicose veins on a plan which was suggested to him by Sir Dominic Corrigan. It occurred to Sir Dominic that as hæmorrhoidal tumours are, as a rule, so suecessfully treated by the application of strong nitric acid, the application of this acid to variouse veins in other situations would probably be attended with equally good results. case which is still under observation in the Bachmond Hospital this plan of treatment has been attended with the happiest The patient is a young man, aged 21, and was admitted into the hospital on the 15th of last month. He had a variouse tumour of the size of a small orange on the inner aspect of the middle third of the right leg. It had existed for seven years. He suffered also from a large variouse ulcer, which existed over the inner ankle of the same leg; and there was also a second tumour, formed of a cluster of variouse veins, in the right grain. Mr. Stokes performed the operation in the following way. Pressure having been made show and below the tumour, the

integuments were raised from the tumour, and an incision by transfixion was made over the veins. The fuming nitric acid was then applied to the external coats of the veins. No pain attended this application. ()n the following day the contents of the tumour appeared solidified at the base; and the acid was . again applied. The process of solidification then went on rapidly, the tumour at the same time decreasing in size. A week after the operation some coagulated blood appeared at the site of the operation, and the following day a portion of the vein came away. This was followed by a slight local inflammation. The wound which, however, after a few days quite subsided. was then for some days dressed with tinct, benzoin, co. and glycerine, when it rapidly healed, as did also the ulcer; and the large variouse turnour in the groin rapidly disappeared. Sir D. Corrigan recently visited the patient in company with Mr. Stokes, and expressed himself much gratified with the result of the operation. (See British Medical Journal, May 21, 1870.)

Carbolic Acid in Syphilis with severe Throat Symptoms. -Dr. Swahy Smith records an interesting case where the advartages of the topical application of the acid were signally displayed. The patient was a respectable woman, aged 32, suffering from local soreness consequent on syphilis contracted from her first husband. When first seen the whole throat internally was seriously diseased. The tonsils and uvula were destroyed, and the surface of the pharynx throughout its entire extent presented a sloughing surface, constantly secreting a tenacious and most offensive pus-like matter. The disease had also spread quits through the posterior nares, and there was a constant discharge from the nostrals. Owing to the excessive soreness and irritation it was hardly possible for the patient to swallow food of say kind, whether liquid or solid, whilst its mixture with the offensive matter appeared to derange her stomach, and had caused her to become extremely emaciated and feeble. On July 2, 1802. Calvert's carbolic soid (made fluid according to the printed in-structions, but not in any degree diluted) was applied to the whole of the distance surface by means of a cameli-hair bresh. She was directed to take a pint and a half of porter, half a pint of beef-tea, and an egg. She was also ordered 5 minime of lic. cinchoner. 5 minime of listtidy's solution of opium, and 10 grains of lodkie of potentium in an ounce of water three times a day. On the following day the throat was found to be much tess sore, and she could speak and set with greater case. The throat was again brushed out, but with a solution of only one part of the acid to 60 of water. After about three weeks lodide of iron was minestrated for the former medicine, and the improvement conthrough, By the 1st of September she was compalescent.

this case, therefore, the topical application of carbolic acid to an almost hopelessly diseased syphilitic sore throat proved of the most assential service, and it is certainly deserving of further trial. See Lancet, June 4, 1870.)

Treatment of Lepra by Copaiba.—Dr Simms read a paper at a recent meeting of the Medical Society on the treatment of this disease, in which he narrated a very obstinate case which had resisted the action of various remedies, but at length was so much benefited by the use of chaina, that for two years there had been no return of the complaint. Dr. Simms considers copails to be best adapted for recent cases in young persons, with whom the specific eruption appears quickly. In older people the specific copaina eruption is often produced with difficulty, or not at all, and yet they recover at times under the use of the drug. The nanseating properties of copaiba constitute one cause of its failure, and the uncertain direction in which it often exerts its influence is often a hindrance in its curative action. In alluding to other drugs, Dr. Simms believed the cures effected by arsenic are often obtained with detriment to the general In the debate following the reading of the paper. Mr. health. Erasmus Wilson stated that he had tabulated 500 cases of lepra, and had noticed that it was often associated with tubercle, and that it was frequently hereditary. He had used arsenic largely in combination with iron, and had never met with any injurious or dangerous effects from it. Of local remedies tar. well rubbed in, had seemed very valuable. (See British Medical Journal, June 4, 1870.)

. Severe Constitutional Effects from a Blister.—Dr. Campbell of Garland's Asylum near Caritale, records a remarkable case of .. constitutional disorder consequent on the application of the liquor vesicatorius, to the extent of 5 inches square, over each side of the chest. The liquor was applied at 3 F.M., for the purpose of relieving chronic bronchitis; at 6 a lineed-meal poultice was put on, and at 9 the patient was found sitting on the night-stool. looking most haggard and exhausted, depressed in mind and evidently suffering great pain. The pulse was 96, weak; he complained of tenesious, a little faces and bloody slime having passed. of pain at the root of the pents and strangury. The blistered surface was sponged with warm water, and a glass of gin with eight grains of Dover's powder were given: both were, however, immediately vomited. A draught containing fifteen minims of both tineture of opinia and sp of chloroform in acctate of ammonia was administered, but without advantage. An evenia of hot oil, with a drachm of solution of hydrochlorate of morphia, was injected, returned at once, and repeated with the effect of enabling himsto lie down in bed. At 2 AM, baving taken a little

chlorodyne in the meanwhile, the tenesmus was quite gone, but the strangury continued. The urine contained much upates, but was otherwise normal. A degree of soreness about the ectum and penis remained for two days, and he had to take caster-oil every second day for some time, but perfect recovery resulted. (See British Medical Journal, June 4, 1870.).

Bicheride of Mercury in the treatment of Nervous Affections.-Dr. Wilks, in the course of some remarks on miscellaneous cases, gave an account of a man, aged 40, who received, two months before his admission into the hospital, a severe blow urion the back of the head This injury was followed by persistent and severe frontal cephalalgia, occasional temporary attacks of less of consciousness, and on one occasion loss of power in the right ann. On admission there was great nervous excitoment and restlemness, and impairment of consciousness. These symptoms soon subsided on the administration of small doses of bichloride of meacury. The general nervous affection passed off, and left the patient in a good state of health, with the exception of the pain in the head, which still persisted. Dr. Wilks speaks favourably of the good results of preparations of mercury in cases of obscure nervous affections, with much arritability and mental disturbance. A case of this kind was also alluded to, in which the failure of many other remedies was speedily followed. by the successful administration of five-grain descs of grey powder. (See Land, June 4, 1870.)

Bromide of Potassium in Ague.—I)r. Moxon observes that this drug was first introduced into medical practice as a remedy for enlargement of the spleen, by Dr. Williams, but the cases Dr. W. records do not show any relation of the remedy to agile poison especially. During the last four months, trial has been made at Guy's Hospital amongst the out-patients of the use of bromid of intessium in ague. The results are such as to show that this druk possesses a very remarkable power over ages, and a power that promines to be of important has in many of the more chetinate cases. Dr. Maron for had several instances of its successful employment, and two of them were persons who had taken quining for a length of time without benefit. The following is one of the cases reported .- S. S....., aged 19. a gardenor, from Strentham, came under Dr. Rese's care with tertian same, on June 13, 1869. He stated that he had had passaysms of arms every third day, between four and five in the afternoon, for the last two months, and had taken quining during the whole of that time, but had durived no benefit or relief of any kind therefrom. On admission he had the general appearance of a healthy lad but complained of tenderness in both hypochon-There was extended dulum over the liver, and

also over the spleen. On the following day he was ordered two grains of quining, in infusion of gentian, three times a day. pursuits this treatment for a fortnight he was no better. The bromide of potassium was then ordered, in doses of twenty grams in infusion of gentian, thrice daily. On June 30th he was noted to have been free from attacks since the 27th, and felt better. On July 3d the splenic dulness was diminished, and the felt well. On the 7th July he was discharged well. During this patient's stay in hospital he had taken eighty-four grains of quinine without benefit, but after the first sixty grains of bromide of potassium he pronounced himself materially relieved. A considerable number of other more recent cases have been treated in the same way, and this has been the general result, that the bromide always checks the ague, so that for one or two weeks the patients have no serzures; that in some of the cases the cure is permanent, even while the patients still continue to reside in the place where they took the ague; but that in many cases, when the patient is still in the ague district, the ague fits return after one or two weeks of free interval. (See British Medical Journal, June 11, 1870.)

## Setructs from British and Foreign Journals.

Treatment of Habitual Constipation. - W bellim observes that this is a common affection, and that although fair health is not always incompatible with irregularity in the functions of the boxels, yet various disorders are very commonly nitimately produced. The means community-adopted are: 1. Enemata, which at first might hopear retional, but their constant employment tends to render the construction more obstituate, but water in particular abolishing the sensibility of the mineral membrane, and enfeelding the contractility of the magaziar tunica. 2. Oily substances are sometimes introduced into the certam, or demukents like decortion of marsh-mallow; these lubricate the surface of the intestine, and favour the decharge of the faral matters, but they by to means tend to re-establish the functions I Inducedable and stance water not untreasurably. of the intestme taken, such as brown bread, white mustard seeds prune tailp, which in their passage along the intestine from which they are discharged unalgered, slightly irritate the mineria membrane, and augment the secretion of the glands 4 Purgatives which seem so precedy indicated in construction, and are so commonly used, are dangerous, and almost always induce an aggravation of the habitual state by augmenting the dryness of the mucius meubrane, and rendering it inscusible. Le Bretomeen and Tronswan both recommended beliadonns in cases of habitual countipation with the happiest results, especially in cases where probably a certain degree of crethiam of the canal was present. Hyusoyawas and tobacco liave also been prescribed. M. Meurica sagments that its action is due to its producing an irritation and an active congestion of the miscons merclame, followed by a hyperserve-Belladonna, however, is and to affect the sight tion of fluid. and to impair digestion. 6 The external as well as the internal use of cold is often serviceable. 7 Kleetricity is minortimes effectual in femperary obstruction, but rarely or never in habitual 8 Nax vonice proves necesionally very mericuable in cases of flatulent dyspepsis and tympanitis, but it is inefficient to procure a radical cure of habitual constipution. 9. Lastly, topics which are often indicated have themselves a tendency to produce constitution. After thus quincenting on the principal modes of combating consequence, M. Leclier proceeds to point out the great advantage derivable from the employment of the waters of Plombières in the treatment of this affection, their action being, in his opinion, quite special on the nervous system of the abdomen. He admits, however, the importance of attention to regimen and to exercise, the effects in many instances being much heightened by nux vonica. (Bulletin Général de Thérapentique, 7°, Livraison, 1870.)

Treatment of Hysteria by Inhalations of Ethereal Tincture of Valerian.—M Guillemin states he noted the effects of this mode of treatment in twenty-seven cases, till he became so convinced of its efficacy that he ceased to record the results. He gives the details of one severe case, in which there was complete loss of consciousness, and other symptoms which appear to us to have been of an epileptiform character. The attack was very prolonged; various plans of treatment were tried without advantage including the inhalation of pure ether; at length he experimented with the ethereal tincture of valerian, and found that when administered for little more than a minute, violent excitation occurred, followed by quiescence and sleep, and no recurrence took place. (La Revus Médicule, March 26, 1870.)

\*Bromide of Potassium in Diabetes Mellitus.—Dr. Austin Flint relates three cases in which benefit was derived from the employment of this drug in cases of saccharine diabetes, and he suggests that further trial of it should be made with a view of ascertaining whether it is entitled to be classed with other remedies that are sometimes useful. In one of the cases about 10 pints of urine were being passed per diem, the specific gravity heing 1:040. Trommer's test showed the presence of sugar in abundance. His appetite was good, and there were no dyspeptic The skin was dry. He was placed on an antiailments. diabetic diet, and the bromide of potassium was prescribed in 15-gram doses, three times a day. On Nov. 1, five days after the commencement of the treatment, the quantity of the urine had fallen to the natural standard; the specific gravity was 1-030. Nov. 17: The bromide had been continued in the interval between this and the 5th Nov., and the specific gravity had fallen to Trommer's test showed still the presence of some sugar, He complained of feeling sleepy during the day, and it was accordingly discontinued, and the specific gravity of the urine at the time of the last note had risen to 1 028. The patient, in addition to all kinds of meat, inclusive of fish, cysters, and eggs, was allowed celery, lettuce, onions, cauliflower, tomatoes, and some apples, both raw and roasted, which he found a good substitute for potatoes. He took ten and collec with cream and a small quantity of roisted bread, and was by no me medic strated with his diff. The American Practitioner, vol & No. 1)

Treatment of Epilepsy by the preparations of Copper and Zinc. M. Voisin, of the Salpstreere Hospital has written an important paper on this subject, important, because his expersonne has been large and the because the case the reports are comine cases of cure, the epilepho attack having convol to appear for ten years or more. Whilst admixing the fungale of potassium and other agents attorned the vounter water eften prove of great value, he observes it would be about to think that they can effect a care in all cross, or even produce any amelioration, and be thinks the remodes previously as possed have of late been too much neglected. These in tale the locate of zinc, the nitrate of silver, the aumomiscal sulphate of copperin shark, the metallift for parations. M. Vorsin gives the enough of a number of cases that earnered under the ear of M Remarks which excellent results were alst aned Amongst the vegetable reacedies amployed, we observe valerian, migroit, belladonna, digitalis, and hyperyamus—though in all, the administration of the metalic preparations always mentured constituted the essential part of the treatment. He appears to entertain no sort of one-tien respectiff; the cumbility of epilepsy, and many of the range her has reported have be a lifer a veral years. (Bulleting General de Therapentique, March 17, 1070)

Intrauterine Injections of Nitrate of Silver in cases of Otenine Catarrh. M H teantillon gives an account of an interesting case in which this plan of treatment combined with the use of laminaria probes, preved successful. The parient was unmarried, 30 years of age, childless, and healthy till the end of the year 1868. Then she began to have palms in the bolly, with bearlache, debulity, and with discharge of a thick geletiment character. On examination with the speculum the neck of the utorus was found to be of natural size, with antero-flexion towards the right side, and the canal extremely parrow. A play diffued in althe was applied with poweral anatomicity ametiment. and those we serves were continued for six weeks. On the 15th of December a lammaria proba No. 5 was introduced, and on successive days Jarger and Jarger probes, till a No. 13 bungle could be passed. On the 2d of familiary he diperted a strong solution of nitrate of silver. No rolle was experienced, and the patient, after an injection of cold water, walked alcent or usual. From this time forth she was cured, and no further treatment was required (Guzette des Höpstaue, April 14, 1870)

Treatment of Variols with Carbolic Acid. - M Chauffeed states he has for some time suivantageously employed carbolic

acid in variola. He selected the worst cases, and administered it in all those he judged likely to prove total. In five such cases recovery occurred in four. He considers it possesses a special action on the secondary fever, and is superior to all remedies hitherto proposed in its power of arisisting the febric symptoms, whilst others only give the patient the capability of supporting it. In two cases the confluence was extreme, and seemed beyond the hope of recovery; yet the and treatment proved successful. In the fatal case death occurred from pulmonary congestion, which had been present throughout. The dose given was 15 gr. for men, and about 12 grains for women, in water, and continued for from eight to ten days. (La Ruru Médicale, April 16, 1870.)

Enterotomy in Heus.—The practice of making an artificial anus in cases of intestinal obstruction was first suggested by Maunory in 1819; it has been alternately approved and denounced by numerous writers The latest writer in its favour is Dr. Frantzel, of Berlin. The priscipal arguments against opening the abdomen in any given case are: first, the accurrence of numerous recoveries from infussusception, even when the most serious symptoms, such as facal vomiting, have set in ; and secondly, the difficulty that is always experienced in diagnosing the probable site of the obstruction before opening the abdomen. and of discovering its actual site afterwards. The Frantzel's proposition, however, consists in making an artificial anus above the obstruction, and he considers that the situation where this should he made can be ascertained by attention to the sounds eligited on percussion; for it is constantly found that the intestine above the point of obstruction is tympanitic, and yields a metallic sound on percussion, and that this sound as the disease advances gradually spreads farther and farther from the point of obstruction, whilst the party below are dull. He therefore proposes to cut down upon the tympanitic region, which is certainly situated above the site of constriction or obstruction, and to e-tablish an artificial anus. He adduces a number of cases which bear out his views. (Virchou's Archir, Hett ii. 1870) -

Chromic Acid in Cutaneous Diseases.— Or Purdon calls attention to the advantages to be derived from the use of chromic acid in condylomata, vermus horry growths, &c., and further notices that it proves extremely serviceable in times circinate, in the proportion of 1 of the acid to 7 or 8 of water. A single application is sometimes sufficient to effect a cure. He has obtained similar good results in cases of times tomourans, sycoms, and other parasitical affections. For condylomats and vertices he finds the proportions of 1 to 3 of water, and for chronic eczems 1 to 10 of water. The addition of the Lyon Medicals stated that similar solutions have in his bands proved.

efficacious in cases of cerema, and also in some of \$1 they diseased of the skin, like psoiteds. Finally it has effected a cure in a case of hypertrophic input with evaluation tion. Journal to Medicine, &c, March 1870;

Calabar Bean in Suppuration of the Cornea.— M. Gilezon-ski-expresses himself in favour of the installation of solution
of Calabar bean in the treatment of this form of epithalium
disease. The contractile action exerted by the boun on the
vessels of the cornea opposes then diffiction and congestion,
and singularly, ands the centrization of wounds. Belladouna,
which produces opposite effects, should, he thinks, is discarded
in these affections. (Annuaire de Thérapeutague, 1879)

Pomatum for the Prevention and Cure of Baldness.— M. Hardy gives the following as an effective application:—

> Suet, 65 parts Caster cd, 25 parts Callin seed, 2 parts Essence of vandla, qa mix. (Ibid.)

Treatment of Aphonia from Paralysis of Intrinsic Muscles of Larynx. - Dr Oliver, of Massachusetts, proposes a new mode of treatment for that form of larying al paralyms allow by Mackenzie "paraly are of the adductors of the see at copia," and by Tobold "phone paralysis," a form which is inlateral in character, and dependent, in the majority of cases, upon general debility and hysteria, or other impairment of the nervous system: but sometimes upon emotional influences and a weakened condition of the muscles following larynests, or the straining of the wace, and more rarely upon rhoumatons and other blood discusse. Laryngoscopic examination exhibits either complete or incomplete paralysis of the cords; in the former case there ligaments, on attempted phonetics, remaining wide separated, in the latter approaching the median Jina to a greater or less extent. The methods of treatment commonly surp in such cases are sa, follows: 1. Oalvanism. A The application of attenuating liquids to the interfer of the laryan or the inhalation of atimulating gases. If The gympastics of the laryax augmented by Von Bruns, the patient leng asked to produce simple southly whilst the laryngest mirror is in position in the thoryng, 4 The employment of an amounthatic. 5 tieneral treatment, change of air, tomes, dec. The plan anguested by Dr Ohver compared in the extended manificulation of the latyna, the wings of the thyroid cartilage lying compressed in their posterior and apper part by the thumb and forelinger. The result of this is to approximate and stretch the vocal roads. At the same

moment the patient is directed to sound." a" or "ah." He considers that many of these cases are dependent upon a lack of power to start the machinery of the vocal apparatus, whilst when once started the power of keeping up the action is easily afforded. In. Oliver gives a series of cases in which a single sitting sufficed to effect a cure. He considers this plan to be contraindicated in cases of excessive general debility, or when there is a decided tendency to hamoptysis, and he thinks that it may be employed either alone or in conjunction with one or other of the plans mentioned above. (Hay's American Journal, April 1870.)

Treatment of Orchitis by Antimoniated Inunctions .-M. Isaac states he has frequently treated orchitis in this mode with success. He commences by pricking the skin with the point of a lancet from the external inguinal ring downwards along the rourse of the cord as far as the scrotum, and then rubs in an ointment containing potassio-tartrate of antimony until a crop of pustules is produced. Care must be taken that the ointment be not too strong or rubbed in too violently, so that the pustules are too numerous, lest excatrices or gangrene of the scrotum result. Usually three or four frictions are sufficient. but they should be repeated as long as steady and continuous improvement does not occur. The same reasons that render it unadvisable to apply leeches to the scrotum, contraindicate the application of the cintment to this part. The only dressing required is a little cerate spread on lint. Under the influence of the eruption thus produced, which probably acts as a revulsive, the pain of the orchitis disappears in forty-eight hours. The tumefaction of the epididymis undergoes considerable dimination in the course of ten days, and the cure is complete in three weeks without likelihood of relapse. (Sud Médical, 1870. Nos. 1 and 2.)

Injection of Ergot in Aneurism.—At a late meeting of the Medical Society at Konigsberg, Herr Schneider gave the details of a case of aneurism of the femoral artery in which this mode of treatment, recommended by Von Langenbeck, failed, the case being subsequently cured by the application of digital compression. At the same time the reported a case of strumous disease which had progressed most favourably under the injection of pure tineture of iodine, at several consecutive visits, into the tumour by means of a fine injection syringe (Pravas). (Balliner klinische Wochenschrift, No. 20.)

Treatment of Chronic Rheumatism by Blectricity.— M. Cherron has arrived at the following conclusions from his experiments:—1. The swellings and other malformations of the joints occasioned by chamic rhoumatisms may be considerably diminished by the application of the constant current. 2 The pain accompanying the disease may be greatly abated even after a few applications. 3. If the atrophy of the joint be not complete, its anchylosis can be effectually prevented. 4. Calcareous deposits, contractions, retractions, and muscular atrophy occurring in chronic theumatism can be materially relieved by this mode of treatment, and may sometimes be altogether cured. 5. The application of a constant current never acts injuriously, since, besides its local effects, it acts on the constitution generally improving the nutrition, and thus not only moderating the dyscrasia, but eliminating it from the body altogether, as is manifested by the permanent relief that is obtained. (Giornale Vento di Stiente Middicks, December 1969.)

Injection of Igdized Solutions into the Uterus for Metrorrhagia. - M. Dupierris recommends the adoption of this mode of treatment in the harmorrhages that occur after childbirth, and as a means & preventing the access of puerperal The temedy produces an excitation of the internal surface of the uterus, which tends powerfully to make it contract and constrict the open mouths of the ressels. thus aids the uterus in its efforts to expel clots, last does not, like the perchlords of ion, not as a direct harmatatic, or cause the formation of small class in the mouths of the vessels, which, although doubtless stopping the flow of blood, are yet of the nature of fereign bodies, and may become the source of various accidents. The polized injections are most useful in cases of metroribagia with mertia of the nterus. regards the mode of their application, he clears out all clots from . the interior of the organ, and then injects through a gum elastic tube, with considerable force, a solution containing water two parts, tincture of iodine one part, and a small proportion of iodide of potassium. The fluid escapes freely by the side of the fingers holding the sound or catheter; the uterus quickly contracts, the kichia are sparing and free from ill smell, and recovery quickly follows. (Union Médicale de la Gerende, Pervier 1870.)

Dumbrose cured by Ricciricity,—M. Jubiot results a remarkable case (possibly hysterical) of a young girl, aged 17, who for twenty-eight months remained completely dumb, but was otherwise perfectly well. The attack bad supervised auddenly, the speech being lost in the morning, though sha had gone to bad perfectly well. From this moment she had lost her natural vivacity, and had befome almost ideatic, eating little, and with the tongue curved upwards. A surgeon divided the francian, and the tongue regained its natural position. After being ideatic for four menths her intelligence and appetite autumed, the lips and tongue executed necessaries but as

sound was audible; the velum palati was not paralysed; deglutition was easy; no circumstances were present which could give rise to a suspicion that the girl was feigning; there were no rheumatic symptoms. M. Jubiot conceived that nocturnal con-\* vulsions might have occurred, and with this notion applied a reophore to the neck and to the lateral and anterior regions of the neck. Up to this time the patient had been unable to articulate a word, or to make the least sound. When she was pinched or pricked her tears flowed silently. On the second day of treatment M. Jubiot obtained a confused noise in consequence of painful impressions On the eighth or tenth day she shouted out loudly; on the twentieth she could articulate a few words; and the next day she said very clearly, "Bon jour, monsieur; je suis bien, je suis guêrie." (Marseille Médicale, Jan. 1870)

Tetanus. Recovery after employment of Chloroform. -M. Simonin, of Nancy, gives the following case: A workman, aged 37 years, received a slight wound with contusion on the back of the left hand Thirteen days after the accident tetanus supervened, and presented the usual symptoms of pain in the throat and neck; difficult deglutition, complete trismus, rigidity of the muscles of the abdomen, as well as of those of the upper and lower limbs; opisthotonos; pain in the temples, nose, and lips; risus sardonicus; violent and sudden muscular contractions; immobility of the thoracic cage; anxiety; want of appetite; constipation; extreme thirst; insomnia; cold sweath. alternating with flushes; pulse 120, and 40 inspirations per minute; difficulty in passing water; extreme emaciation. These symptoms reached their some on the ninth day, and death . appeared to be imminent. The improvement, which was followed by a return to health, commenced on the twenty-fourth or twenty-lifth day, but his life was in danger on the twentysixth day, in consequence of a sharp attack of Bronchitis. The cure was certain on the fortieth day, and he left the hospital on the seventy-eighth day, the wound having healed with difficulty, and some statiness remaining in the arm. The principal treatment consisted in causing him to respire air strongly charged with the vapour of chloroform. The napkin was placed on his chest impregnated with chloroform in a room having a capacity of forty square yards. Upwards of five andforty pounds of chloroform were used, and for nine days about two pounds per diem were used. This treatment was protracted through twenty-two days. A few small doses of opium and hydrate of chloral were administered, but were speedily discontinued at the wish of the patient. The dist consisted at first of heef-tes, ice, wine, beer, and collec; but subsequently it

was made as generous as possible. (La Revue Médicale, 30 Avril, 1870)

Treatment of Thrush. - M Parenta of Turin, has, from his connection with the Maternité Hospital in that city, had abundant opportunities of studying this disease. He regards it as a distinct disease, almost peculiar to infants, and usually-idiopathic. not a Momatitis, but a parasitic affection, free from danger, except under unusual circumstances. It is charactersed by the presence of the ordium albicans, the germs of which are floating in the The modifications they produce in the secretion of the buccal fluid are a consequence, and not the cause, of the disease. It is not a symptom of the intestinal affections by which it is so often adcompanied for these are produced accordarily by disorders of the nutrition. Posicies general hygienic treatment, the local therapeuts: means which prove most elleracions, are sulphur, a solution of chloride of sodium, and a solution of nitrate of silver, with camphorated blenhoi, applied successively according to the degree of intensity of the disease. (La Gasette de Turis and La Revue Mblicale, April 3, 1870.)

On the Treatment of Penetrating Woulds of the Chest and Lungs. - Dr. Jacenko, of Kiew, observes, that in the text-books diametrically opposite statements are made in regard to these three questions: First, shall a penetrating chest would be sewn up or not I secondly, where a prolapse of the lungs has occurred, shall it or shall it not be returned and thirdly, in the event of a foreign looky having entered the cavity of the pleurs, is it right to attempt its removal? The subject has occupied his attention for four years, and the following are . some of the principal results at which he bas arrived. . If, as is well-known, the pleura be opened, the lung collapses; but if the sir which has entered be removed the lung again expands. Now the removal of the air may be effected easily by means of a funnel provided with a valve opening only in one direction of by means of a funnel with a stop-cook por leadly, by an ineffectived andiogens in its action to a stouagh-puter. Jacopho has satisfactority deconstrated the possibility of thus removing the air by experiments on animals, in which both pleure were opened, restoring respiration and life to animals in whom death was imminent. It was found much more difficult to be runtically mal the wound and prevent the further sutrance of air, but he accomplished this by execully suturing the lips of the wound, and dragging the healthy integrment over the seat of injury, so as in point of fact to reader it a valvular opening this purpose from wire was known mean appropriate. The action of the sir on the plenra was always shown on the injured not in animals dying, after some days, with one theurs open, by pleasitie

effusion; whilst the opposite side, which had been wounded at the same time but closed up, remained healthy. In regard to wounds of the lung, again, he by no means takes a desponding view of them, since not only can the flow of blood from the wounded organ be arrested, but, which is more important, its activity can be restored, as is demonstrated by the following experiment. A knife was plunged into a rabbit so as to open the pleura and wound the lung. The external wound was enlarged, the injured part of the lung discovered and drawn out; a silk thread was cast around it and drawn tight, completely isolating a portion of the lung. (In such injuries it is remarkable no hamorrhage from the lung ever occurred.) Lukewarm water was now injected into the cavity of the pleura; over the external wound a glass fumuel with a valve, and caoutchoug tube for exerting suction was placed. the blood and air contained in the avity of the pleura were thus withdrawn, and the external wound carefully sewn up. After twelve days the rabbit was killed, and on examination not a trace of pleurisy was found to be present. The lung crepitated everywhere, and there was consequently no at lectasis. At the site of the injury to the lung was a small radiated and slightly depressed cicatrix. (Centralblatt, April 30, 1870.)

Recovery of Vision by an Artificial Fistula of the Cornea in Leucoma.—Dr. Gradenico, of Venice, reports a case of a man, aged 27, who had suffered from granular lids, and had in consequence lost the left eye from destruction of the cornea. The right eye became subsequently affected, and, notwithstanding it was subjected to treatment, an extensive ulceration of the corner occurred, which left on healing a cicatricial tissue that entirely obscured the vision. The lids continued to be touched with . sulphate of copper, until, to his joy, the blind man perceived a ray of light in the left eyes the brilliancy of which steadily increased; a corneal fistula formed spontaneously, and, like an artificial pupil, gave passage to the light, and dimmished the tension and hardness of the eye. It proved suggestive to the surgeon, who immediately made an opening in the centre of the opposite opaque cornea, and touched the migute ulcer daily with the sulphate of copper: a fistula was thus produced with prolapse of the membrane of Descemet, and continued to become clearer, until at length he could walk through the streets unaccompanied, and read the type No. 50 of M. Giraud Teulon's type. (Coamon, 7th May, 1870.)

## Notes und Queries.

## \* DEPARTMENT OF NEW INVENTIONS

Times there remains about 3.5 per cent, of saline residue. About three-fourths of this exidue reschloride of sodium, the put being chiefly chloride and sulphate of magnesium, chloride of potentium, sulphate of calcium, and a small amount of broands of

magnesiau.

Chlorate of sedium, according to the uses to which it is put. or the sources whence it is derived is known as common sult. kitchen salt, risk salt, sea salt, &c. the latter term being applied to an impure chloride of sodium obtained from ara water. This chloride of sodium (sea salt, however, although contrally contammated by chlorile and sulphate of magnesium and sulphate" of calcium, does not, when redissolved constitute sea water. inasmuch as some of the most characteristic salts of the sea water\_are either absent, or present only in much diminished proportion, having remained descrived in the mother liquor from which the chloride of sodium has crystallized out? This mother-· liquor is semetimes allowed to run lack into the sem or the salts contained in it are extencted by a special process of manufacture, subsequent to the removal of the chloride of sodium. As fur as we are aware no article is at present obtamulile in London containing all the salts of sea water in their proper necportion, and which therefore, when dissolved in-the necessary quantity of water, would really constitute a sea bath.

The annexed table contains the results of a recent analysis of Tidman's Sea Belt, and for the sake of comparison are added the composition of the dry residue left on evaporation of the water of the (Jerman Ocean (according to Bischoff), and also of two samples of impure chloride of sadium manufactured in France

from sea water.

We will leave it to our readers to daw their own conclusions

from the table

The sample of Trimen's sensalt analysed was parked in a small wooden less, the lid and the two small suites of which were concred with a large-yellow lakel. On this label was printed a lat, on

the lid, "Tidman's Sea Salt. For Producing a real Sea Bath in your own room. Dr. Hassall's report and directions are enclosed in each package. N.B. Each Bag or Box should bear the words, 'Tidman's Sea Salt,' without which none are genuine. Sole Proprietors—Tidman and Son, 10, Wormwood Street, London, E.C." 2nd, on each of the smaller sides the label bears in the centre the trade mark—a bag with the words "Tidman's Sea Salt" upon it; with "Trade Mark" printed right and left, and "7 lb." above. Round the sides of the label stands, "Extracted from the Foaming Billows! Recommended by the Faculty! Patronised by the Nobility! N.B. Beware of limitations!" In addition, one side of the box is marked on the wood, "7 lb. Tidman's Sea Salt."

The salt consists chiefly of chloride of sodium, and contains only very minute traces of either potassium or bromine.

	It as Incheses	Talm ng	I rench Salts	
			ist	2nd
Chlorade of sodium	78 04 2 09	91 98	97 39	95 10
potassium	8 81	1.84	0 24	171
Bromide of magnesium	0.20			
Sulphate of magnesium	6.58 3.82	1·39 1 50	1.38	0 54 1 79 •
('arbonates of calcium and magnessum	0 18	-	Acres .	
Insoluble impurities and loss.	100 00	0 79 100 00	100 00	100 00

A NEW ICE PESSARY .- Mr. Bird, whose very ingenious inhaling-pipe was noticed some months ago in this journal, has now invented a little instrument likely to be of great service in many affections of the rectum and vagina. It is a hollow cylinder, with rounded ends, made of very thin polished metal. and unserewing so as to allow the cavity to be filled with ice, or with a freezing mixture. Mr. Bud was led to insent it for the relief of a triend who suffered acute agony from hæmorrhoids. complicated with enlarged prostate, and its success was so perfect that he is led to believe the remedy may prove widely usuful. For our own part, we should be inclined to think that even more important uses would be found for it as a vaginal application in states of uterine congestion, vaginismus, &c. Les is the one form of possary whose benefits in such cases are attended with no drawback on the sours of irritation of the sexual feeling, but, on the ------ include a most boundaries action.

GAINT'S INDUCTION APPARATUS. In answer to several correspondents who inquire where this faradising machine can be purchased, we may say that we believe Messis. Squire, the chemists, are the sole agents in England.

SUBSCITANFOLS INJECTION OF INDIAN HEMP.—In answer to "W. W." we have to say that our own experience is not favourable to this mode of administration of campbis. The fincture is minimize the subscitaneous tissue. Lately we have found much benefit from the use, in localised poinful affections, of a liniment composed of finct, caunabis, chloroform, aā 388; ol. olive 3iii. The chloroform appears to aid the absorption of the active matter of the hemp, in accordance with Wallie's recent experiments on its effect in aiding the cutaneous absorption of atropine.

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<sup>1</sup> Any of the foreign works may be product by application to Williams & Trate of H urreles treet, towent transfer, W. C., or Mesers Dulan, of Soho Equate, W.

# THE PRACTITIONER.

AUGUST. 1870.

# Original Communications.

REMARKS ON THE ACTION OF THE HYDRATE OF CHLORAL IN PARALYSIS OF THE INSANE AND OTHER FORMS OF INSANITY

## BY WHITAM MACIROD, MD

Deputy Inspector teneral f II sp. as no l Visit F fil Anna II mosal, Great

As to the hypnotic action of this medicine there can be no doubt; this is allowed by all who have used it and given their experience to the profession. What, however, has been much wanted in the treatment of the terrible, distressing, and hopeless form of disease we are about to speak of, is an agent which will not only give good rest by night, but which, if given in smaller quantity by day, will southe and calm the patient, and set on the sensory gangles, which evidently are the parts of the nevert tissue chiefly involved. Hydrate of chiefel will, in a great measure, fulfil these ends if properly and judiciously administered.

Since the 9th of March, 1870, hydrate of chloral has been administered to 20 patients in this hospital 13 cases of paralysis of the insane 18 of them being destructive and fluisy), 9 cases subject to periodic manageal attacks, 3 cases of melancholis, 1 of descentia.

The patients fabouring under parelysis of the means were in different stages of the disease—8 of them being sheepless, nowy

screeching, shouting violent, and destructive of clothing and furniture, and such of them as were able to walk continually on the move. The other 5 cases were partially demented, occasionally noisy, with exalted delusions, but as yet not destructive.

In all the 8 destructive cases, with doses varying from 15 to 30 grains, good sleep was procured for seven and eight hours, and not attended by loss of appetite, constipation, drow-siness, or morning sickness. In most of the cases the sleep was followed by a general calming influence, more so than after any other hypnotic, and which continued for several hours. One patient required 45 grains to cause sleep when in the sick ward; but place the same patient in a dark cabin by night, and 20 grains will induce sleep. This patient is in the first stage of the disease, full of exalted delusions, very noisy, shouting to such an extent as to be heard all over the building, violent and destructive.

At night he is placed in a cabin by himself; 15 grains are given him, and repeated every two hours until he sleeps. He rasses a good night, and he is removed next morning to the sick ward, where he is washed and dressed. During five days of the seven he is quiet and easily managed, and this calm state often continues until bedtime. (In other mornings he is not, however, quite so well; he is leke a giant refreshed with sleep, and will in a short time upset the ward, tear his clothing, and destroy some of the furniture. Let 10 or 15 grains be given him, and it is astonishing how soon he becomes quiet, but he does not sleep. I prefer to see this calm condition produced during the day. rather than sleep, as in this comparatively good state he can be sent to the airing ground with the other patients, and practically it is found that he gives no trouble One morning I was walking in the quadrangle, when this man began to shout, and attempted to break one of the windows. I at once visited him and got him to take 10 grains, and in a quarter of an hour he became calm, and began to hum hymns and say his prayers. In order to test the beneficial action of chloral, a few mornings ago I purposely refrained from giving it to him, when he began to show symptoms of violence, and, instead of giving it, I ordered an attendant specially to watch and take care of him. He soon

became unmanageable; 10 grants were given, which brought him round to his ordinary quiescent state. He began to take chlorid on the 5th of March, and it has been continued to the 1st of July.

Ituring the first thirty-one days, \$15 grains were administered giving him a ddily average of 29 grains, for the next fifty days, 1,1:0 grains were given the dayly average Bing 22 grains, and from the 1st to the 20th of dune, 490 grains were taken—the daily average was now slightly increased, as 214 grains were required.

It was then given up, in consequence of symptoms of prostration supervening, which, however, very soon passed away; and during the 21st, 22d, 23d, and 24th, he was so very quiet by day, and elept so well by night, that it was not necessary to give any. He seemed during this time as if under its influences: took his field wall, appetite being, I may say, vorscious. This, however, is a symptom of the disease in many instances. But in all patients who are under the influence of this medicina the appetite is found to be excellent.

On the 25th he became so very restless and violent that if was determined to give chloral as is fore. He required, on the flipst night, 45 grains, given at intervals of two bours, before he became calm, and up to the end of June, 20 grains daily were found to be sufficient. Between his entrance out the 5th March, and the end of March, he lost 8 ibs in weight, since them has held his own up to the 16th June, and from that date to the 1st of July he has gained ground, looks better, is stronger, and walks with a figure stop.

Another patient, who is far advanced, in nerve-softening, being demented, noisy, destructive, and who for three days and nights before he tools chloral del not along a wink, required 45 grains before he slept, and then along for eight hours. During the following three days and nights the calming influence continued, and he slept at intervals the attendant feeding him when awake. At the end of the three days he again became textless, noisy, and destructive, and on the scening of the fourth day I began to administer 15 grains every two hours until he had taken 60 grains, when along supervened. He along at this time nine hours, and it was followed by a

calming and soothing effect for three days and nights. Since then a small quantity—some nights 15 grains, other nights 22 grains—causes good sleep, and of late the quantity has been reduced to 10 grains.

It is not now administered every night, but given when the patient begins to show symptoms of restlessness. It is found that if it is neglected to be given when these symptoms present, and he is allowed to be noisy for a whole night, or even for a few hours, a much larger dose is necessary in order to calm him. What answers in each individual case must be discovered by experience, and it is individual treatment that will prove beneficial. He has had from first to last 1,020 grains without a bad symptom.

I might proceed and state the individual treatment of the other six destructive cases, but it would be, in a great measure, a repetition. It is not only in the noisy and destructive cases that this remedy will be found useful, but also in the treatment of those patients who, although not destructive, are full of exalted delusions, and at stated periods become Excited and troublesome. I shall mention one case: he is full of exalted delusions; one day expecting to be Governor-General of India, and another day to command the Channel He is constantly subject to abnormal sensations that certain portions of his body are removed from him, stomach being tom out of him, and a dragging sensation at his heart. -Hallucinations of hearing are common as well as illusions of Memory is very defective. For his own safety he requires to be continually under observation. He therefore sleeps by night under the observation of the watch; when awake by night he is abusive of every one, accusing the attendants of causing the abnormal sensations. So fully impressed is he with the belief that they cause those sensations, that whenever he sees me he makes complaints against one and all of cruel treatment. By day it is a repetition of the same complaints, with an occasional growl against an ungrateful country for having forgotten such a distinguished servant. This patient, before his illness, was one of the most amiable of men, but before he began to take chloral his language became unbearable. 3rd April he began to take 15 grains at bedtime in a glass of

fainds and water, and it has been couter mel fall auf et 2746 June 7 to come having been taken during that time well new but unition. "His nights have been exceedent to trie got in mist sweet-news, distincted the other patients and in the might not instead of boing exceed not see allows the control to be quet and carl to all. This happy water is given a part deep dinner, when the anthenee gradually passes as as at the gradually inter a talkative most. As he is however at it with to the open air, if it not necessary to repeat the chilos ! I have no doubt 10 grains at this time would calm i mi, in the per perior rewred it for a more advanced period of the characin this patent soun caused an intermitting pulseysoul hypedermic injections of morphia produced sleep for a few hours. but as soon as the sleep proceed as we he was worse than before, twittenlarly us to the abnormal war trans and be required purgatives to act on the bowels. On the other limbel, under the chloral treatment all the natural functions ar performed regularly to his gained fit hand is costainly more returnal

It often happens that after a parent last used through the first type of the disease he gets compensatively well the evilled delisions variety and he becomes confuritely regard. although the external physical symptoms remain such as thickness of speech and diminished motor power. Many those get we well, that when friends visit them they find them "so much improved that they are decented and flatter themselves that they are quite well. Patients in this state are most uncertain in their conduct; suddenly they break out with their delineums. As, for instance, such a patient came to our two days. Long informing me he had just recurred a message from beaven that the Sarmor was in appear on earth at twelve mon to-day. and he was to attend him the talesme restless and rested during the rest of the day, and more so as the evening advanced At hedding he last 20 grams given him in half a tombler of marter, and this has been repeated as often as the evilted delusions and other symptoms return. Then evolted democrass, commonly called mental are as much physical and the result of diseased action in the membranes considerious of the fram and central gapglia, as the diminished segestion and motor p ser are the result of softening of the cervical and dorsal portions of the spinal cord.

This remedy has been found equally useful to the patients who are permanently confined to bed; who are perfectly helpless, but who are noisy, and can destroy bedding with their fingers and teeth; and my present impression is, the more helpless the patient is, the less does he require of the medicine, if it be given whenever he begins to give evidence of an inclination to be noisy.

In the cases mentioned the daily average quantity of chloral given, instead of increasing has diminished, while keeping up the hypnotic action by night, and quiescent state by day. This class of patients was previously treated in a great measure by constant and careful watching, by digitalis alone, or in combination with hydrocyanic acid; by hypodermic injections of acetate of morphia; by belladonna, hyoscyamus, oxide of zinc. bromide of notassium, stimulants, and plenty of exercise. Good nights were in many cases procured; but I could point out several instances where no treatment availed, and even the formy and rugged path to the grave could not be calined or made smooth. Careful watching and nursing are as necessary as ever, but with the assistance of chloral it is comparatively made easy. The second case mentioned above was, before the administration of chloral, a most troublesome one. Digitalis, when given, cakned him for the time, but acted as a powerful depressing agent. Hypodermic injection of acetate of morphia. although it caused sleep, produced great irritation of the stomach next morning, so that it had to be discontinued. He was also very destructive; now he is quiet, easily managed, has gained flesh and strength, and certainly can walk better.

From the rest induced in one and all, a great change for the better has taken place, and I am able to say, in one word, that during the last four months not a riag has been torn, nor an article of furniture destroyed. In the cases under consideration the bowels, as a rule, were obstinately constipated, there being a total want of peristaltic movement, requiring turpentine enemas twice or three times a week, as well as the frequent introduction of the catheter; since they have been brought under the continued influence of chloral, purgatives are seldom used, and no

catheter has been required, nor hate I found it never ary to find any of them by stomach-pump. I do not as retailed, if change to any direct curative action of the medium harming as I do now some of the more important pathologically, but later to the with this disease when once it has made program, but later to the improved rist by might and calming induces he day, together with the arrest in a great no office, of the constant waste, not only of the nerve tissue, but of all the tissues. Exhausting exercise or labour of any hind is in my opinion very hurtful; the quieter a patient can be kept the better. Whether this treatment can be carried out for any lengthened period and if so, whether it will be attended by extending the lives of each patients, remains to be seen. I shall anxiously await the result.

It sometimes happens, but not frequently, that chloral green in the morning does not have its full influence until the night, and what is given during the night does not act mutil the following day. And this makes not more careful in kining it to those who have been taking it for a lengthered period In the first case given, production was observed on the Josh of June, on the one hundred and second day after taking on average of 23 group daily. In such case, when the putout cannot give any information, it is difficult to distinguish between the Indden state of partial syncope, which is common and pronlims to softening of nerve tissues and while it almost all cases precedes epileptiform convulsions, and the prostration garred by chloral. There is such a thing as chloral influence, or saturation of the system by chloral; for the patients who, before it was given, were night after night noisy and destructive, since they began to take it go several nights without requiring it, and still the calmatite infinence is continued, and if given on the first symptoms of restlements, a small quantity seems to induce sleep The last-named patient was equiently affected by it after it was discontinual on the 19th June, as he was perfectly qual and sleepy during the following four days. There were no other decided symptoms besides the printration, the face was pale, extremities cold, pupils natural, respirations and pulse test I have given it in enema by the rectum but I have not found any advantage in so doing, as the patient who as a rule, was calmed by 20 grains when taken by the mouth,

required 30 grains when injected into the rectum. Recourse can be had to this way of administering it when a patient refuses to take it by the mouth. It would be a great advantage could it with benefit be injected hypodermically in insane patients.

Hitherto there has been no difficulty experienced in the patients taking it. Some have taken it in brandy and water, some in simple water and syrup, others in porter, and the majority in bread and milk. I am inclined to prefer the stimulant, as practically I have found that patients taking it in this way have slept well, and the calmative after-influence was satisfactory; and the stimulant may prevent symptoms of prostration. It is recommended to administer brandy before giving chloroform; and if chloral be converted in the system into chloroform, the stimulant should counteract temporary symptoms of prostration. I make it a rule to feed those taking it when awake during the night.

It has been stated that chloral diminishes the temperature of the body during sleep. Now to decide this question may appear avery simple matter, but I have been for the last three months attempting to settle this point, and I have not been able to do so. These patients sleep so very light, that the least touch rouses them up. I am satisfied that when as much as 15 grains are taken, or even 30 grains, and sleep is not produced, it acts as a stimulant the temperature rises and so does the pulse, the number of respirations is increased at the same time. I am of opinion, although I have not been able to prove it by thermometrical observations, that in every one the temperature is diminished during sleep, taking into consideration the anemic state of the brain and nervous system as a whole. In a general paralytic, who took chloral for seventeen days daily (20 grains), average morning temperature was 9715; average morning temperature without chloral, 985; revening temperature when taking chloral, 98; evening temperature without chloral, 99 20. The avelage morning temperature in the third case described in this paper, when taking chloral, was 96 20; average morning temperature without, 97.5; average evening when taking chloral, 97.5; average evening, not taking chloral, 98.5. Taking the temperature in patients labouring under dementia an hour before shloral was administered, and taking it in logic after the dose was taken, there was found no difference

I think I have said sufficient to show the great advantage to be derived from the careful administration of the by his of chloral in paralysis of the meaner. That the temporary use of it has been of much good cannot be denied by any who have observed its action, and I shall continue to watch will much interest the different patients who are rendered calm annder its influence.

A troublescase class of patients are those who are subject to periodic sattacks of manus complicated with hallucipations of hearing and illusions of sight. The more mental aberration there is in the intervals, the more are these patients under the domineering influence of the vones, they less all control over themselved. and act as they think they are tobl. For instance, a man audienty sees, according to his ideas, the devil standing before him, who directs him to commit suicide. The attack is noticed coming on, and the patient is placed under observation but while the watch is attending to another patient to community and stealthrively coat of the word broken in the less and inflicts two deep wounds under the penetra Adaes of is the work Me is brought back to his lad riving in the sat of a moment ing with all his might, and the master under whose from rule he is for the time being is standing before him is iting him not. to submit. The wounds are dressed, and he is forced to take 35 grains of chloral, and in a short time is a sound askep, and next morning he has forgotten all about the previous evening. and becomes as guiet as a lamb. (In previous or carums when under the influence of the vones, and treated by purgatives and hypodermic injections, the attack continued for several days. In order that he may bookent perfectly quiet, that the wounds may unite, he is kept under the hypnesis action of hydrate of chloral by might, and its calmative influence by day, taking daily 25 grains for sixteen days - 10 in the morning and 15 at hedring The wounds unite without a bad symptom, the dressings commit only of list souked in weak solution of carbolic acid I to 50

Chloral will not prevent the a attacks unless the premonitory symptoms are observed and if they are, I am unless the imprestion that they may be prevented by giving from 30 to 19 grains, so as to throw the patient into a deep sleep. There is sufficient evidence that they may be cut short. I have found chloral to be an excellent remedy in all instances of patients influenced by voices periodically with excitement, as they very soon become quiet and calm. To patients who are troubled with voices incessantly but not influenced by them, being aware that they are hallucinations, chloral has been given with the hope that it might destroy the undue sensibility of the nerve-tissue affected. The voices were most troublesome an hour after dinner, and during the night when awake; 5 grains were given at 4 PM, and 15 grains at bedtime. After a few days the voices became softer, more distant, and not so constant, and the patient's nights more agreeable when awake; but no complete cessation has as yet taken place. Such a patient is now under treatment.

In patients who periodically attempt to maim themselves chloral has been found of the greatest advantage, as under its action the inclination passes away.

One of these patients has an irresistible desire to strike the back of his hands against the wall of his cabin or the sides of "his cadle by night, and by day he is found picking them with his nails or a sharp stone, until he makes the whole surface raw and ulcerated. Giving 15 grains morning and evening for a few days prevents his going on with it.

Another, who is periodically violent, whose propensity is, when in that state, to break windows (and break them he will in spite of all watching), had his last attack, the previous ones having been invariably of ten days' duration, cut short in three days by giving 15 grains at bedtime; and, what is more astonishing, became a good working hand. It would appear that any prominent propensity under the influence of chloral vanishes away for the time, as the tide blots out marks on the sand, and does not return until the same predisposing cause produces a return of it. In these cases the tendency to mischief seems to be preceded and accompanied by disturbed rest; and it is to the refreshing sleep caused by the medicine, without disturbing the ordinary functions of digestion, that the good results are to be imputed. Rest is everything to the nervous system of such patients.

In a case of melancholia with dementia, when the patient

was very restless, wideful, and refused his feed off political good, masmuch as shop returned and he felt him alt meteral if requiring to be field by the attendant. In melimbelia with religious formation of idea, with extreme depressing these intellect temp good in which it was of the er itest monerat and importance that the regulity of them his with it accounts one ing feeling of utter deepan should be arn-ted, and ir which the imagination was vivid and the individual recalled the whole past history of his life, and every act warr views dand examined from a despairing fourt of view, all adding to his is ride monthly. although hloral graduced good abop at first, and for a time while under its influence out short the train of ideas, giving a numertary ray of hope to the satient yet when its restraining influence had passed away, the same process of reasoning became more rapid, and the feeling of despair more rateme-Mer a time sleep seemed to be repelled. The pate at's depression followed a linguing fever which evidently left an alramon of the invocas membrane of the stomach, as then was morning retiling and blendy mucus was vimited with an enemainal clot morning during the retching has metaken to grant of chierates during the previous twelve hours, adden palein is of the face, cold extremity spand great prostration with enumy sin the legs, superstined. The ordinary brandy naxture of the Phormacopo is was freely given and the patient soon ralled, but the chloral, was discontinued, and small desert of acetate of morphia agected. into the arm, which, with a free diet, answered well.

Under the taking of the chimal the blood completely disappeared from what was ejected by the stomach, and the retching gradually ceased. If it should turn out that chloral has the power of contfacting the capillary vessels on the stellars of mucous membranes, the fact will be worthy of attention. Chloral in this case was given every night, and sometimes during the day, for three weeks—for the first week in dones of 20 grains, gradually increased during the next fourteen days to 25 grains. On the last days 60 grains were taken. In melancholia, when the delicions of the individual have been of the religious type, and confined to one or two leading delicates with a complete want of sleep, under chloral sleep returned and the patient became convalue cut. All the above facts force one to conclude: 1. That in paralysis of the insane, where the patients are destructive and violent, the judicious administration of chloral acts as an excellent hypnotic by night and soothing agent by day.

- 2. That under its action the patients have been free from destructive habits, and have gained in weight and strength.
- 3. That in one case as much as 2,810 grains were taken during ninety-five days, the daily average taken being 30 grains, with no bad symptoms. In a second case as much as 2,435 grains were taken during 122 days, being at the rate of 22 grains daily; when the patient gave evidence of prostration. A third patient took 2,380 grains during eighty days, the daily average being 28 grains, with no bad symptoms. A fourth patient took 1,362 grains, with no bad symptoms. A fifth patient took 501 in twenty-four days, giving a daily average of 25 grains, with no bad symptoms.
- 4. That under it the action of the bowels and bladder have improved.
- 5. That in no case has there been a refusal of food; on the contrary, the appetite of the paralytic patients increased.
- 6. That patients suffering from abnormal sensation derived much benefit from it.
- 7. That in patients subject to hallucinations of hearing, with suicidal tendencies, it has cut short the hallucinations.
- 8. That in patients liable to hallucinations of hearing, and under their influence becoming excited and noisy, it has produced calm.
- 9. That in patients with a propensity periodically to maim and hurt themselves, the desire has passed away under the influence of chloral.
- 10. That in patients who suffer incessaftly from voices, it has been given with partial benefit only. This refers to patients who were aware that the voices depended on morbid sensations.
- 11. In certain cases of melancholia benefit was derived from its administration, and convalescence advanced.
- 12. That in another case of melancholia with extreme depression, and the intellect being good, no permanent benefit was derived, except that under its administration the bloody exudation from the stomach completely disappeared.

13. That the greater the disorganization of the brain and cord (as judged by the symptoms, and especially by thermometrical observations) the sooner does the system come under chloral action.

I have not given the thermometrical observations, as they would make the paper too long

In these remarks I am fully borne out by the assisting stoff a surgeon of the hospital, Dr. Wheeler, who has with me carefully watched the progress made by the different patients under treatment.

ON THE TREATMENT OF HAMOPTYSIS, WITH REFERENCE ESPECIALLY TO THE EMPLOYMENT OF STYPTICS.

## BY DICE DUCKWORTH, Mb.

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Among many problems in therapeuties awaiting solution upon a basis which is satisfactory to the scientific inquirer, and therefore due to the claims of legitimate Medicine, stands the question as to the value and modus operands of styptic agents when given internally. They are constantly made use of, and both the routine of practice and popular demand tend, I believe, to encourage their employment with unnecessary frequence.

I propose to discuss briefly in this paper the practice of treating homophysis with styptic remedies.

In estimating the value of any special plan of treatment, it is, of course, necessary to pay especial attention to the cause and tendency of the morbid condition or symptom we try to rectify or relieve. In the more api language of my distinguished former teacher, Professor Hughes Bennett, "a correct pathology must ever precede scientific therapeutics"

With regard to hemoptysis then, we find that in the great majority of cases it is a symptom of pulmonary consumption. The occasional bleeding from thoracic aneurisms—and those arising from pulmonary congestion, secondary to heart-disease, may be said, practically, to call for no interference with styptics; neither do the occasional small hamoptyses which occur in the course of chronic bronchits and emphysema. It is, however, a question with some whether the hamorihage in pulmonary apoplaxy should be restrained. The late M. Trousseau advised

<sup>. 2</sup> Vide Cairdner, Clin. Med p. 524.

the use of mecacuaths in these cases and appears in it is effi-If carnot roy all see that it is desirable to the kills and if it of blood in such art was though any rem dy that was 'd any ast hemorrhage into the texture of the intere might in the lawer tolled | Paring by the comparatively rise rate of camer and hydatul of the lungs as affording carmes for himself, in me arm left mainly to deal with that are ing frems phthen . reviewing the causes and results of this articular is a proper in the britylace, to bear in mind that death directly from it is the rarest of occurrences. Immig the largest hospital expenses of the last twelve years," I have my self only seen one death from this cause. An accurate diagnosis should be raide so far as is possible. It is critically wrong to privile the chost for make any such physical examination of it us cutails necessitive The bleeding is usually from small disturbance to the patient bronchial, arterial, or from pulmonary venous brazelies, esten into by ulceration It is always recognized as from these sources, unless the blood be distinctly venous in appearance when, as most rarely happens a branch of the pulmonary artery has ruptured 1

Theheve that a large number of cases is imply to maptively require no mode and treatment whatever. It can are no soften so regulated as to be what we may call self hunted, that is, a vessel or some small seeds ruptone they there for a time, and they cease to bleed. The analogy in this respect, I believe, between such a breach, and a similar one classifier on the body, is not so distant as may be at first supposed. Many cases of palmonary hismorphage terminate in this way. In the meantime there may have been wise or unwise measures employed to check the process, and these are not malikely to win credit for the satisfactory result. I need hardly say here that this is no evidence whatever to us as the repeations.

How often, unless, are prostitution assummed to cases of hamoptysis and on arrival find there is nothing for these to do. The patients condition in the meantime may have flow most inconducive to the result. He is perhaps found lying on a

I Difficulties arise seasetimes, however, as when an assument leaks into a bronches, or, rupturing at the same moment partly tube a bronches and jurily into another channel, does not cause death for many hore

warm feather bed, in a close room, surrounded by anxious attendants. Perhaps the only favouring circumstance in a somewhat severe case may have been the partially syncopal condition, induced by alarm at the sight of blood, which moderated the cardiac action.

Nothing beyond rest and suitable hygienic practice is called for; but if there be interference with medicine, the result will be perhaps set down to the particular drug employed. There is no doubt that many agents have not only gained, but maintained a reputation as hemostatics on the credit of cases similar to the above. And, indeed, if we boldly survey the whole field of thempeutics, we find the same sort of faith to prevail only too largely.

So much then for those cases, a large number as I have stated, requiring no interference with drugs. We are compelled, however, to treat a hæmoptysis which does not cease spontaneously.

It is first to be borne in mind that, with perhaps one exception, to be presently mentioned, we are not in possession of the means to effect a change in the vascular walls in a short period of time. Some homostatics no doubt act rapidly by altering the relations between the blood and the vessels.

"In all cases," remarks Professor Bennett, "the best remedy is perfect quietude, and avoidance of every kind of excitement, bodily and mental. Astringents have been recommended, especially acetate of lead and gallic acid; but how a few grains of these remedies, introduced into the stomach, can operate upon ruptured vessels in the lungs, I am at a loss to understand; and I have never seen a case in which their administration was unequivocally useful."

This is a hold assertion as to styptic drugs, but in the class of cases we are now considering, I believe it will not deter the practitioner from interference. It is my conviction that we are warranted by the results in employing certain drugs in severe and prolonged hemoptysis. It is perhaps too much the habit to give opium and powerful astringents in these cases. To be of any u.e., Di to has of gallic acid should be given every half-hour at first, or gr. ij to v of the acetate of lead as often. The result of such medication, in many instances, is so to disturb the digestive powers and nutritive processes as to throw back the patient,

<sup>1</sup> Pathol. and Treat. of Pulmonary Consumption. 2d Edit. p. 147.

and render the hamorrhan stack stongers a consider to him

I believe the value of optim in hymophysis to of the content of the children of a children could be described and a children could, but also in its local ton and content of the sould visual. That continued doses of no its of had produce a marked effect upon a reported visual to surface. I with a no doubt. We are, it is true, had with the difficient of apposing that a few grains introduced into the mass of the circulation—say grive to be 15 of blood—should act in a decrebed a manner, "We must remember that though only a manufacturatity at a time is presented to the injured capillary, that quantity is continually incomfied by others as the remain of the circulation passes over the part. Lead is absorbed with case excreted with difficulty. It dominishes the red corpusales and thus directly complements the horizonthane distincts.

I believe however, that in many cases we in is diep nor with this remedy, as also with gallie and in factor of the first sample plan I shall now melition. On the occurrence of a stancel humorety and other semedica hard to we theld on to my astringent or alightly apprecate medicine assets. A real forces mx to mx of dilute sulphure and, as for right to the et it of the howels as to a of sulphate of main so may be given with this in some spearment water every half-hour at first, and then less frequently. In addition to suitable posture (semi creat and other well-known favouring conditions, absolute sulcans should be encouned, and the patient urged to refrain from coughing as much as possible. Should the bleeding continue, we should place a bladder of see," or a frozen compress," between the scappin for a short time. This scapetimes acts promptly, no thruld by reflex action, and probably this is the only means whereby a rapid change can be induced in the vascular walls Should this tail timet digitalis should be given (M v or xx, with each dose of the astrongent saline. In addition to this if the case appears obstinate, a blaster should be painted on the front

<sup>1</sup> In Merdland Fatnet from presalt bet r with subject 1 + 1

<sup>\*</sup> Walsh, Issues of the Lungs 'I lidst ; 4 7

<sup>\*</sup> Bir myet, Text book of Proctical Medicine, Amer Tran to be a large NG XXVI

of the chest, if possible under the clavicle of the side believed to be affected.

The ordinary habits and remedies may be resumed in a day or two after the cessation of the hæmourhage.

The above description comprises the most beneficial method which I have witnessed, and, in setting it forth here, I need not say that there is no novelty in it. I do believe, however, that it deserves to be employed more frequently instead of the medication with opium and powerful astringents.

Of the value of ergot, turpentine, and common salt, remedies frequently employed and lauded, I have no experience. I imagine the actions of opium and ergot are not dissimilar as regards their effect on the small blood-vessels.

• Digitalis has fully vindicated its right to a high place in our list of hæmostatics. It is believed to produce its effect independently of any action on the circulation. Dickinson<sup>1</sup> suggests that it influences the muscular fibres of the uterus in cases of menorrhagia, in which it is of great value.

Ipecacuanha enjoys considerable reputation as a harmostatic, especially in the Parisian school. I think the following experience of it in harmoptysis worth recording in this place. I employed it in two bad cases, and watched its effect in a third. In only one of these was the result satisfactory.

CASE I.—A farm labourer, aged 21, admitted into hospital with a second attack of homophysis, which had persisted for five days. Sufficient evidence of mischief was elicited at the left apc. I gave him gr. ij pulv. ipec. 4tis horis. This caused only slight nausea. Next day, homophysis continued. Ordered gr. v 4tis horis. This caused vomiting, but was persisted with. Homophysis not checked. A blister under the left elaviele was of no service. The bleeding ceased gradually in two or three days, the patient taking, in the meantime, sulphuric acid and digitalis mixture.

Case II.—J. P.—, aged 35, Itoyal Dockyard policeman, was admitted into Plymouth Hospital with severe hemoptysis. Known to be a subject of chronic phthisis for last three years. Ordered by the late Inspector-General, Dr. Stewart, 5ij vin. ipec. (—cire gr. v pulv. ipec.) scandishoris. This caused vomiting,

<sup>1</sup> Roy Med 4 hir, Trans vol. xxxiv

and the some is we appended in taxons of solar and who is falled and was replaced by sulphure and end do not ensure who halicans was of no avail. [The near do I pursus from here give and on examination I found by replaced in three days and on examination I found by real broughtal alternative but again, communicating with branches of proposity the pulm many vein [

Case III Out patient and of hid lookin, man, had out foreifor some days with hemopt, as Physical some of Totake Maxim specific or as totake. No benefit derived in a week, when grave of gallic acid were ordered ter die. Next week, hemophysis no better (blood was brought up in my presence), to take grang pulvappe ter die. On the second day of this treatment, the hamophysis ceased completely. The pewder was taken till the fourth day, who is a proved purpative, and was appended to nauses was produced. In six nomiths' time no change in condition of chest, and no further hismophysis.

In two of the cases manuscoccurred. Transcent meant areal that neither this ner usual executs interfer I with the most result. One naturally hears the disturbance to the except of many somiting, but this circumstance continue it course wheat? mane ant remede a The etype can can ed apercumular at at really exist, is much yet explained. I have also show shown that the theory of its bleaching the lungs is untenable, and that these organs, on the contrary, are found full of blood after its use I I am disposed to believe that this doing door not not similarly on all individuals, and that, just as the dust of it excites an asthma in some persons, and is harmless to the nit-passages (in small quantity) of others, so the nervous arrangements of some may be more susceptible to its action Chrenck believes that it excites a similar contraction in the valender to that which it promotes in the bronchial tubes of SUME LETSONS

The humostatic actions of name and remains are perhaps partly explicable by the caliner state of circulation they include

In many cases, I believe, we may bear in mind the opinions of the late Dr. Pheophilus Thomson, and other authorities.

<sup>1</sup> of Both Herp laports val a 1804.

A On Pulmonary Commencement, Int Page 2 35

which teach that oftentimes in phthisis moderate hemoptysis is useful, and seems to retard a fatal issue.

In conclusion, I would make one or two remarks as to the blame which is sometimes set to the account of steel and codliver oil in causing hemoptysis in cases of phthisis.

Cullen' forbade the use of ferruginous medicines as styptics, because they "contributed to increase the phlogistic diathesis of the system;" he also condemned l'eruvian bark for the same reason.

There are those who deny the truth of this, and consider that even if such were the case, no harm would result. I suppose few remedies are more largely employed. If iron be withheld from the cases where there are manifestly present pyrexial symptoms, hardly any complaint could be made.

In these instances the remedy is unsuited, and quinine replaces it with much advantage. And so with cod-liver oil. It is not, however, possible in every case to say whether one or the other will positively prove harmful, and the truth in the matter is, I believe, comprised in the following, which is the experience of my colleague, Dr. Andrew, viz. that both steel and cod-liver oil do cause hemoptysis in a certain small number of phthisical patients, who, therefore, cannot take these remedies. The greater number, however, bear both well without any such occurrence being fairly chargeable to their use.

1 Works, edited by Dr. Thomson, vol. it. p. 238.

# ON PAIN AND ITS TREATMENT

#### T J F ATRINHON, M D. FIC

Late Pargrem of Birthol men's H spotal Chetham, and Robel Soch I motes Basenessy

The existence of pain presupposes the existence of

- 1 A lemm (to appreciate jam),
- 2 A chain of nervous matter to convey the semantion of punto to the brain
- 3 Arterial blood circulating in and around the nervous centres (to give the acresions matter life to earlie it to conver the sensation of pain)

It cannot under any commetences of in it end of the conditions be absent. Out off the supply of blood to the nervous system and no impression can be made upon it, cut in two the nervous connection, and the sensation of pain cannot be conveyed to the brain. Remove the brain, and there can be no appreciation of pain.

The following circumstances generally give rise to more or less pain :-

Increased activity of brain and narvous system, awing to increased electrical action, or alteration in the quantity or quality of the blood. Increased supply of blood dependent on narrous irritation. Pressure on a nerve. Excessive runs ular evertien. It is accompanied by excess of blood both in the part and in the brain and uses up vital force more rapidly and wasfefully than muscular and intellectual work. The restoration of nerve trans which ought to 40 on during along its augusted waste products accumulate, and thus the nutrition of the nervous system is affected in three different ways there is increased waste, increased accumulation of waste less repair, digestion

becomes impaired, and the various secretions disordered. Pain indicates that there is a disturbance of the harmony which usually exists in the body, and that the part or organ so complaining has been unduly exercised, and is in fact suffering from exhaustion. Excite the heart's action too much, exercise the brain or muscular system too much, and pain is the result. the production of local anæsthesia, very sharp pain is experienced just before the nerves begin to lose their vitality. to the extreme nervous tension produced by the action of the cold, and is an exhibition of fatigue The pain felt in wounds produced by bruising is the result of the merve-power being diminished and the tissues pressed upon by the products of extravasation. Extreme mental anxiety is a condition allied to that produced by excessive muscular or nervous irritation (it is. as it were, mental pain produced by over-exertion of the brain), and the same symptoms are induced since the brain is incapable of engaging as hitherto in calm thought and reasoning. various agents which tend to produce pain in increased intensity Since pain is coincident with the occurrence of inflammation, it follows that the nervous system must be, to a greater or less extent, concerned in its production; and in order to show what share it really does take, I will describe the three stages of inflammation thus:-

- \* 1. Irritation of nerve, causing contraction of capillaries in the part, and increased rapidity of circulation
- 2. The nerve by continued irritation begins to lose its controlling force over the vessels. The capillaries gradually dilate, the blood circulates more and more slowly, and by degrees the corpuscies adhere to the sides of the vessels. The tissues in the immediate contiguity appear to assume a much greater attractive force, and to lose their previous power of selection.
- 3. Increased paralysis of nerve, complete stagnation of blood, effusion of serum into the surrounding tissues.

Dr. Radeliffe and Dr. Anstie divide painful inflammation into two classes:

- 1. Where the pain lasts only during the preliminary stage of inflammation.
- 2. Where the pain persists after the second stage has commenced.

In the latter the tiesues are intoested to empre an trans or stretching. Betwee beginning to speak of the treatment of pun I would remark that health is a condition in which every or can el the fouly performs its furnitions in a proper unit esteach to must, and one which tend to afferd the person or tem mental felicity. Though there may be and me ware a sagraged health, it is folly, under any car on times, to deak of it is excessive. Health is the very highest point we can obthe and all deviations from this must be in a downward direction this it may easily be inferred that the chief things I would adviso for the restofation of nerve-power are rest and support The latter must always be administered in such a torne so in compatible with the weakened state of the deposition. In cases of extreme mental district accompanied by more nia, where the four et ersquannie in the brain, I would recommend my harticles, of food as corn flour, bread and malk eggs, and best tes more e-partially the tirst two. If stimulants are required the best are ainmonia, fea celler de last is met rentile obtained by the bromide of sumonium of presum or the ladret of eldorst ... Where the cause of the pain recenting or departure upon a disordered state of the blood I would suggest the eray loyment of alcohol in preference to the stimulante mentioned above should be repeated often, and in small quantity. Flushing of the face, incremed temperature quickened pulses with incremed " dicrotism, the appearance of alcohol unaltered in the urfae, are one and all indications that it is being given in excess, while the opposite of these symptoms are industrons that benefit is resultmy from its use. Here opinio clearly shows what it can do in re-toring nerverpower and procuring rest. It may be applied either locally, or given internally. Hypodermic injection in certainly a very valuable way of administrang adataves, oversionally, where the hypoderma injustion of morphia and stropmo fails, an amelioration is quickly obtained from a series of bladers and applications of morphia to the denuded surface. In section cases, stropine morphia and timeture of accente when moved with chloroform, and samply applied to the skin, seem to afford as much ease as when they are used hypodornically. Some attends of brow ague are instantly and permanently referred by Laul anasthosia. Local stimulants also occasionally offert a great

deal of good. As regards the medicinal treatment of pain it may be said in few words to consist in the administration of nerve tonics with sedatives: thus, for neuralgia, quinine, arsenic, or chloride of ammonium are generally prescribed with belladonna, colchicum, conium, lactuca, or cannabis indica; for neuralgia of the tests, perchloride of iron. Hemicrania is almost always benefited by muriate of cinchonine or iodide of potassium. The twitchings that accompany locomotor ataxy are generally relieved by nitrate of silver in combination with belladonna. Numerous other instances might be given where nerve tonics and blood restorers are prescribed for the relief of pain; but these I think are sufficient to show the correctness of what I have stated above.

# ON THE USES OF WINES IN HEALTH AND DISEASE

#### BY THE EDITION ASD BYALD

### PART II ON WINES IN DISEASE

## Section 'I Wines in Arute Diseases

The questions which we have to discuss, in considering the owns of wines in disease, are much more numerous and distribut than those which we dealt with in speaking of wise as a beverage in health, and if we expend comparatively town word, in discussing them, this will are e-from the fact that an knowledge is here very much be sextensive and accurate to that we can fait present an important outline of the ubject. We lake to have expressly laid down, may be gathered from a systematic study and arrangement of the facts already known to promote alphysicanne.

We propose in the present paper to deal with whaters by far the most important portion of the therapeutics of wines, the use, namely, of these liquors in acute discusses. A few preliminary words are necessary, in order to define the class of maladies which we include under this title.

- Acute diseases, as we understand the word, are affections in which danger to life, or notable damage to tissue, is rapidly produced; or in which, at any rate, marked and characteristic trains of symptoms are quickly set up. They are divisible into two chief groups, as regards their relation to alcoholic treatment, viz the febrile and the non-febrile.
- 1. The februle acute diseases include the exanthemata and the other epidemic fevers, and also the sente inflammations, whether primary or supervening on injury or surgical operation, or complicating a previously existing disease

In commencing the discussion of the use of wines in Tebrile acute disease, it is necessary to say a few preliminary words as to the circumstances which induce us to prescribe alcohol at all in such maladies. Not to occupy space with unnecessary detail. we may say broadly that the combination of high temperature. especially when persistent, with delirium or other evidences of nervous prostration, great rapidity with a high degree of dierotism of the pulse, and especially a tendency of the latter to become unrhythmical in such a manner as to show rapid and irregular changes in the force of the heart-beats-all these strongly indicate the use of alcohol, and when they manifestly diminish under the influence of our first experimental doses we are confirmed in our opinion. Again, there is a class of inflammatory affections, chiefly represented by pneumonia and bronchitis of the aged, in which all the other symptoms above mentioned may be present without the high temperature, in which also alcohol is strongly indicated. The safest guide beyond comparison to the use of alcohol in all acute diseases is the condition of the pulse: the existence of marked dicrotism with great rapidity, especially when combined with any irregularity, is a far truer indication than any consideration derived from the stage at which the illness has arrived.

With regard to most of the acute febrile diseases, it may be said that alcoholic liquids are to be prescribed primarily, if not only, for the sake of the alcohol which they contain; the only other points of consequence being that the other ingredients of the liquor shall be harmless to digestion. For the most part, then, we shall simplify matters by ordering plain spirit properly diluted with water in these cases, and the use of wines is This is especially the case where the febrile unnecessary. temperature runs high persistently during several days; and, generally speaking, in the early stages of severe pyrexia which is to last for some time. The distinctive uses of wine in acute febrile disease are of a different order, and may be divided under two heads. The ethered constituents of wine have a special value in the later stages of severe februle disease with great exhaustion of the heart, especially when combined with sleeplessness. On the other hand, a low alcoholic strength of wine, together with the presence of carbonic acid, as in the finer effervescing wines, is particularly useful in cases where the

violences of the fever, the nervous procession and the ligangement of digestion are out of projection to the reservoir of the case as regards danger to life and continuous description of tissue.

(1) A most important and too little occurred distinctive indication for the highly others it wines to be found in the condition of cerebral and cardina exhibition work is so well seen, for instance, in the third and fourth we keed a corre case of typhoid-fever. Here the chart dan er unquestionably arrest from the whikeness both of the nervent and mossular turnes of the heart. The special combustive processes have for the most part spent their force, the danger is from the failure of the heart. I must these emmendance we shall, I believe dis best by throwing a rife branty in less we can pressure the most secherche kunda, which are red in effects and betaken emirals a to the new of the timest old part or always or to some of the neme excellent qualita ext. Rhenrile in Munamen with e. Propi a configuration counts become and compared or transcription to twenty ferir error of the Him communication which knows my dev Ruster, given, inclosed tobe to be to be about his level in all prothe ideal simulating or a bands the commission of supresult low tapadly the treatment at the same time. strength and regularity to the heart's action and others the memous apatem, so is to all in it ever toget will ret be all to "It is unless here to think if our cost, the very tract winns that can be presented for metax is just that with will property the effect we desire with the leat you this delay physicians of the Westminst i Hopital have hel abundant opportunities of observing the effects in the circumstances of a very splendid old sherry, of which the late Duke of Northunder land presented a large quantity to the he pit do and for our own part we are consumed that the water me of a head input in something entirely distinct into it is not a color

Another instance of acute discretin which probaind exhaustion threaten a division to us of the heates the form of insamity known as a ute deliming. We continuely express too strongly our case of the separatory of the layer expewines to merely potent declicial liquids in the cases. We have been informed by alient play range, whose larger experience, only confirms our own, that the calming and reviving influence of such wines as we have just referred to is of inestimable value. In such cases there is commonly no very great elevation of temperature; but everyone who has seen much of this terrible form of disease must be aware with what alarming rapidity the nervous system and the heart succumb. It is by no means always necessary to give large quantities of the stunulant Sometimes a very few glasses will suffice to restore the patient to a condition in which he becomes willing to take those supulies of food which are of the first importance for his safety: and, above all, the efficacy of this treatment in inducing sleep is of the utmost consequence to the patient. In short, though alcohol as such seems to have little influence over the progress of these cases, it is quite different with the effect of wines of the highly etherised class. It is not asserted for a moment that their effect is specific; like everything else, they will often fail to do good; but it may safely be said that, with the exception of food, chleral, and occasionally of bromide of potassium, nothing offers so good a prospect of success.

The general result to which the best observation we have been enabled to give to this subject during a good many years of special study has led us, is as follows:—We believe that the administration of potent alcoholic liquids is especially appropriate to the period of severe and persistent febrile disturbance—in fact, to the early, or at any rate the middle period of acute febrile disease; and that if this treatment be judiciously adopted, the ultimate stage of cardiac exhaustion is often mitigated or entirely prevented. But if once this stage of exhaustion be reached, we believe that the largest doses of alcohol as such will be unable to restore the flagging power of the heart; whereas a wine of comparatively feeble alcoholic strength, but rich in volatile ethers, will often prove marvellously efficacious in sustaining the nervous power of the heart till its enfeebled muscular tissue shall have had time to repair itself.

(2.) There is a very different set of circumstances in which febrile symptoms may call for the administration of wine; viz the catarrhal inflammations, the ephemeral form of catarrha fever, and the true contagious influenza: in all these wine is not unfrequently useful, but we are convinced that the weak

effective and kinds are the really valuable form, while the more strongly alcoholised varieties as often do harm is good

To take first the case of catarrhal inflaminations, it is possible we believe, to establish in ascending scale of surshifty for wine treatment. Catarrhal inflaminations, of the somach raisly either call for, or tolerate alcohol in any shap that occasionally when they occur at part of a principle distribution, a friction which involves a considerable amount of prestration, a moderate quantity of sparkling wine may be given with advantage.

Somewhat more inequently is this kind of wine useful in the caturrhal diarrhoa the mute intestinal catarrh-of summer In the unpority of such cases no aleuhol as and autumn required; the patient needs only to land howelf for a short time to a system of entity very small quantities of first (rest necessarily there depet at short intervals, and preserving results the recumbent posture. If any mutating find requires a rangel from the bowels, a mild thuburb purge will be useful and if any further medication by drugs be found necessary spain with or without mineral acids will commonly do best. But if the diarrhica ob tinutely continues for several days as is a specially and to occur when the patient cannot keep the recutabent peature, but must move about more or less then the greatest benefit will often result from putting him upon a ration of ten or twelve . counces of champagne daily, discontinuing all medicines. off the natient can afford it some goal turtle soup is an excellent addition to this fare

Still more marked is the good effect of light efferencing wine in that form of epidemic catarrh which is a companied with low inflammation and ulcoration of the throat, and which is apt to assume an epidemic form. The patient cannot bear to swallow solid food: yet he often gets lows and depressed under even the most continuous feeding with milk last tea dec. while on the other hand strong wine or brandy frequently proves heating, and increases his discomfort. Here champagne to the extent of a pint bottle per diem often most materially assists recovery, and, what is scarcely less important, it greatly relieves the sense of depression and misery

There is a form of ophemeral catacidal fever which may

attack any one, but to which certain individuals are especially liable; it may be induced, apparently, by almost anything which greatly depresses the nervous system, but its access is commonly precipitated by catching a chill, though the latter may be very slight. In such persons the attack is often attended for a day, or for two or three days, with such a considerable febrile heat as to alarm the bystanllers, and to suggest the idea that one of the more serious fevers or inflammations is about to declare itself. " The writer has had considerable experience of the treatment of this affection, and can assert, with much confidence, that it may be very effectively dealt with by a treatment consisting simply of, (a) perfect test in bed, (b) a diet exclusively of milk, which may be drunk ad libitum, and (c) an allowance of a pint of light Champagne in the twenty-four hours; and this is the plan we would generally recommend. A single dose of opium at the very outset of the symptoms may sometimes arrest the attack altogether; but if this fails it is best to dispense with medicine altogether, and simply follow the above directions.

Not less effective is this kind of treatment in many cases of true contagious influenza; but where the disease is very severe, and threatening to life from acute chest complications, it may be necessary to feed generously with soup, and to allow eggs and brandy freely.

We desire to call attention to what seems a very important distinction between the kind of pyrexia which distinguishes the severe contagious fevers and the severe tissue-inflammations, and that which attends a large number of catarrhal affections. We believe that, whereas in the former group of eases the elevated axillary temperature, the flushed face, and sensibly burning skin are a true index of goodly heightened combistion-processes within the body, in the latter they are commonly in great part due to an aftered temperature distribution, owing to more or less generalised paralytic dilitation of the perifficial asterioles and capillarie. If this be time, it has a most important bearing on the question of the administration of alcohol. Large amounts of the potent alcoholic liquids are, we believe, only required in those cases where there is evidently an amount and kind of pyrexia which can only be due to greatly increased processes of tissuewaste, or enormous cell-formation, or both. We do not mean to

of alcoholisation for a strongle council by a strongle conjugate of alcoholisation for a stronger was a discolar to justify of the pile and its behaviour under separation of an inexpet above. If, the appearance or nonappearance of an inexpet alcohol in the union the first a better practice. But in the calaribal ferrise and inflammation whose we selve the rise of the appearant cless from fiving reasons where the operation of the upsit of all common of the new of alcohol whose it is alto only insuch small quantities and such a distribution is to ast minute as a modifier of sensition and bissistantial in larger the tending to refebral stages, and the paramial is long of limbs, det, which are so common, and for this purpose the efficiency and form in paperally adapted.

It is quite otherwise, noting in the in terms inflammations, which tend to the fermation of haugh and of mes within the suisfance of organs. Here due then is no routine principal to oragamst the need talcabolic a must such east mast start upon its individuality hot the care that do call fa these topics demand them well live, for the sale of their de let makern sequently there is no cleaner in the near word or a travellespirits but rather the process of any rate in the angle serves According to the most is entimerated in an initial least ter stronally believe that alcohol subserver a court purpose in mente inflammation. - (a. this it sends to check a ger case as me bustion of tissues, and ch) that (as line shows at charts the migration of blood-corpus he through the variable walls. It is only in the later and exhaustive stages of inflammations. especially of such as tell heavily those the leart, that we find an industion for the hably ethercal wines, we may especially mention riguments percendities in this cate ony. We shall not easily forget the remarkable effects which we can in one perticular case of this kind from the administration of a fine old Rhenish wine, highly charged with other and of magnificent odour, the leable rapidly thekering last eath tak to a comparatively strong and steady leat and the arithhelity of Interse nervous prostration was wonderfully calmed. It is not it atto say that for such a purpose as this no crude or unduly acctous wine can be telerated, it would be the wort recommy to to give the last that money can procure

Before we conclude this present paper we must add a few words that should have been said above, respecting the administration of champagne in the catarrhal fevers and inflammations. The wine itself should be chosen with great care: it should have not above 6 or 7 per cent. of absolute alcohol, and at the same time be very dry; the presence of any considerable amount of sugar makes champague quite unfit for the stomach of a fevered patient. One "pint" bottle will contain about 6 drachms absolute alcohol in such a wine as we are now recommending, We recommend that not more than half a champagne-glassful be given at once; but if the patient likes to fill up the glass with seltzer-water, and sip it more slowly, he can do so. It is a decided mistake to over-ive the champagne, but it should be moderately iced in summer weather. In temperate weather it should not be iced at all, but simply kept in a cool place, in water.

(To be continued.)

## Lehiehre

The court D to it in Melecon Per Wille Ecotaborn Camunit "Doctory or Melecon Sur Is Microsco" Paris 1970

Ir would be impossifie, in any case, to pass with air notion so striking an event of the appearance of the fungarial tection of the first lady- on English lady, mereover-who has ever passed through the formulable orderl of the exampletem for the Pares disclorate of medicane. But in feet the treation but its me months no recommendation from the unional communities and r which it appears. It is a piece of a partie work whi h will be able to hold its own with the critics, and as well downson the importal study of the profession of any menograph we in record come which has appreciated of late to contribute a first the property since of this journal to down the last point the factor of the not pronounce any open in a stotle problems. It is do then " an any considerable mander adjusts on his one of know ledge of modical counce is a diployed in bit to and man and but we may at least avithst we escally at rathe bedelighted to welcome as colleagues one number of lade, who should prove themselves to have mastered their profession as . she has done.

We have already had occasion in reviewing M. Fajole's work on migraine, to express our own opinion as to the pathshapy, and the main features of the appropriate treatment, of this very troublescope maledy. Between the two views, which respectively represent migrane as essentially an affection of the stanuarh and of the brain, we declared unhasitatingly in farmer of the latter; regarding the disease as (primarily) a trigenical neuralgia, and the stomach affection as a mere occordary compluation due to reflex nervous irritation. We are glad to fluid that Mess Garrett, who has evidently made a very careful chine si study of the disease, so far chares one example that she reports unhesitatingly the view of Theot and his school, which regards the stomach as the original source of the disease. She came to the following conclusions: "(1) Migraine is essentially a neurosis, having its origin in the almormal condition of a portion of the (2) In all probability magraine, in a natural absorbation

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of diseases, should be placed between asthma and epilepsy. (3) The central nervous debility is almost invariably accompanied by an analogous depression of some portion of the visceral nervous system, most frequently of the gastric or the duodenal nerves. (4) There is reason to suppose that in migraine, as happens in other cases of severe and recurrent pain, the central lesion consists in imperfect nutrition of the nervous tissues. The immediate result of this is a too rapid discharge of the inherent electricity of the nervous molecules. (5) The cerebral lesion, though usually congenital or inherent, may be induced by certain poisons, as those of gout and malatia, or by some external interference with nervous nutrition."

With these general propositions we, quite agree, and we have further been much interested in Miss Garrett's detailed clinical and pathological description of migraine. draws a broad—possibly rather too broad—line of distinction between this malady and the ordinary neuralgias of the fifth; showing that though the origin of migraine is undoubtedly in the nervous centres the stomach is involved from an early period in many cases. We don't know whether Miss Garrett would accept the following pathological theory, but it seems to us the only logical result of the facts observed both in her experience and in our own. Migraine is a neuralgia dependent on some affection of the central nucleus of the trigeminus which has an unusually strong tendency to communicate itself to the neighbouring and closely connected nucleus of the vagus. trigeminal neuralgia, especially any supra-orbital neuralgia, may provoke reflex stomach symptoms if it last long enough: the clinical and pathological distinctive note of migraine seems to be, that the reflex irritation of the stomach is set up earlier, and far more frequently, than in other nervous headaches. And conversely, the influence of any indigestible matters in the stomach may be much more provocative of migrame than of other forms of nonralgia, because in the predisposed condition, when the patient is already in danger of migranic, the condition of functional debility is likely already to have spread from the trigeminal to the vagus centre, and rendered the latter morbidly sensitive and irritable.

The treatment of migraine which our authoress recommends is grounded thoroughly on the idea that migraine is essentially a neuralgia: thus the prime remedies which she recommends are the bracing influences of fresh air and vigorous exercise, and next to these the purely nervine tonics, especially nux vonica. But she makes a special feature of the subsidiary diet and medication by which the stomach and intestines are guarded from becoming the source of irritation (e.g. from alcoholic stimulants), which might set as an exciting cause of the access of

migrane Miss ferrett stheory being that the production of places to the later is usually inhere it and congenial. We are that that she sells flet t stimony to one most important to the sells flet t stimony to one most important to the sells when the employed remedy the constant slower entries. At solls we she parteet the particular is a sell of wears the fact that the entries to in a selling that it is a more powerful tone and prophylically a suit the attacks their any drust bot he most to be made to experient to a rest the actual papers. Our own experiences is a mply they that it is possible nearly always to allowable, and client implicitly to stop, a paroxysia, especially if taken in time the consolidation need only be applied for about two minutes in the consolidations, and there is not the actual attack, and for about half this time when used as a prophylactic.

In finishing our brief notice of this very interesting state practical frestise, we cannot omit a word of practice for the class and fluent style in which it is written, and the excellence of its French diction; these are remarkable, and add much to the

pleasure of the reader

Answermen dell' to be Associable sperimen a to e personal make trutter cell. Pletter prenture. Como de condit ex Increme Malacula Dienister ex Mediano dell'Osquish Magnera di Milano. Reprinted from the Gazette Media. Ital. Le. 1

THE subject dealt with in this parighlet and in some additional notes which we have received from It I beristofores threats the kindness of a mutual friend, is one of the highest interest. and we cannot fortwar to express our surprise that in England, as yet, only two or three physicines have taken any notice The grospect of laing able to co sample and harmless a method as sherro-rantum cur now be made to save a considerable proportion of cases of an otherwise as fatal disease as north aneutism, or, at least, to greatly prolong the life and antigste the sufferings of a considerable number of these patients is a despite for mating com, and the explored nehineed by the thermioters a viste materially to make this present more assured. He related three cases in which the treatment was applied fouly one has been juithediedly, mall of which an encouraging de vice of secress was obtained, and in one of them results which are finds remarkable latter patient is still alive the two others who were in a very advanced stage of the disease merely had the chifto paneture applied to a 'accordary' encurism or offsheet of the name tumour, and died from subsequent hamowrlage. But in all three 100 REVIEWS.

cases the same substantial facts were observed with regard-to the action of the remedy—viz. that the pulsation at once ceased or greatly diminished, and the sac (or portion of shc) contracted in volume and acquired a firm consistence. The current employed was derived from a battery of twenty-one modified Pamel's cells. In the successful case three needles were inserted into the tumour, at about two-fifths of an inch from each other. Each of these, in succession, was first made the positive pole for eight or ten minutes, and then the negative pole for a similar period: the circuit was closed by a rheophore of moist sponge applied to the A graphic description is given of the way in skin of the chest which the needles, which at first moved rhythmically with the pulsation, came to a standstill during the passage of the current, showing that consolidation was then and there going on. this case, as the tumour was reached within the chest fit was situated in the ascending part of the aorta, and the needles were inserted to the right of the sternum), it seems likely that the greatest part of the whole anemism was consolidated at once: at any rate there was a very remarkable and immediate cessation of the symptoms and physical signs of pressure on surrounding parts. The man (aged forty-five) made a perfect recovery at the time. But the most interesting fact of all is communicated in the MS. communication which we have received from Dr. Decristoforis. Quite lately, many months after the operation, he had again seen this patient on account of a return of the symptoms of compression, and a faintly visible pulsation in the second fight intercostal space. The renewed application of electro-puncture caused the immediate disappearance of pulsation and also of the sensations of discomfort, and at the date of his letter, three weeks after the second operation, Dr Decristoforis writes that "oggi il malato sto benissimo"

Dr. Detristoforis writes moderately and sensibly. He does not venture to speak of electro-puncture positively as a radical cure for antic anemism, but neither does be consider this impossible, of come supposite that the case be not too far advanced, the tumour accessible, as. But he insists strongly on the perfectly innocuous character of the operation, provided that a not too large quantity of electricity be employed, and that the continuous of the current be curefully secured. It seems to us there can no longer be any doubt that it is the duty of all hospital physicians at once to give this promising procedure a fair trial in nortic aneurism, both in the direction of radical cure when the conditions seem to afford a chance of this, and in that of mere mitigation when this alone can be hoped for.

Nota bene, that there seems nothing to stand in the way of even frequent repetitions of the operation, which might greatly prolong life in some cases when cure could not be hoped for.

Here is the Life to of Al of The A of the Here is Buly By E. A. Parker Mile File 1 of Art 1 Hypero in the Army Medical School and Court operate Worldwicz, Mile, A intant Surjeon Army Membership \* Proceedings of Royal Soity and as is No Let

This very volume over the experiments of the first very solution of the betallustration of a ble of the policies of limits of the very means the question of the functions of a net welling of the entry first as to any mixthing of the entry informations which Professor Parkes possesses for the investigations of such a subjects both from his intimate familiants with climical observation and practical physiological climistry and from his candid and judicial temper of mind. And yet it will be seen, from our remarks that this highly continued proport, extending to thirty two closely printed pages, and representing nearly a month's continuous experimental works really covers

only a small area of the field

The resourches now put torward by lir Parkes and Count Willowicz were made on the person of a mildured temperate halats, in remarkately great physical conditions and of enjacing intelligence. As he was an himtual emiker it was judged butter to let him continue to much his results allow are of laft was onnessed tobacco gardiem. He was prepared to this experie uta by a prefinancity total at stineness from all old decing totalism The actual trace covered by the observation we edited anter five periods during the first eight days he took under water tea, or coffee, with his meals, for the most my disa to at his to this dict rectified spirit taking, in devoted quantities on the first day one fluid ounce of absolute alcohol on the acoud the fluid ounces, on the third four fluid ounces on the with and with eight fluid comes on each day, "he then returned to make for vix days; and then for three days took such day half a battle (twelve ouncing of time brusty, of the percent ulcohol, then for three days he returned to water. Thing the whole twentysix days he took exactly the same daily kital and quantity of soled fend, and almost exactly the want quantity of water. Her alcohol was always taken only with in al-

Broadly state to the results of these experiments may be described as singularly negative. First as to side booking a shift (other conditions is naturally constant, the effect of soil happened to be spite unaupportant. Secondly as regal temperature so far from any depression of temperature be never to in both the allehol period the secter means in secretary half a degree close that of the water periods while the axillary temperature was not seriously affected at all. Thirdly, the effects on the excellence, as measured by the

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frequency of the pulse, and its sphygmographic form, are considered by our observers to indicate a stimulant influence on the ventricles of the heart, increasing with the dose, and produced. probably, through the agency of the nervous system; but (by their own account) singularly small so long as anything like a moderate quantity of alcohol was taken. Fourthly, it appeared that the vicinity water was somewhat increased by alcohol but the exact physiological cause of this effect could not be ascer-Fifthly, as regards natrogen of the urine, alcohol amears to exert no influence of importance upon the healthy body, if the influx of nitrogen be constant. The conclusion of the authors on this subject is quite contrary to that of previous observers, who had found that introgen is largely retained in the body when alcohol is used, and that thus alcohol both increases assimilation, and, when food is deficient, saves waste of tissues. Sixthly, a similar absence of any important influence on the phosphoric acid, chloride, and free acidity of the urine. Seventhly, the discharge of nitrogen by the faces did not appear lessened by alcohol. Eighthly, as regards elimination of unchanged alcohol, the observers have no positive new facts. They admit that the researches of Schulmus and of Anstre and Dupié are strong evidence that only a very small part of the ingested alcohol can be recovered from the excreta. They do not attempt any quantitative valuation of the amount eliminated: but they express the opinion that elimination possibly goes on for a considerably longer time than the latter observers supposed.

Proceeding now to notice these observations more in detail. we may say of the conclusions on weight, on temperature, and on exerction of nitrogen, &c., that the results arrived at are of a nature decidedly to stagger implicit believers in "laboratory physiology," and to cause every worker on the subject of alcohol who has been cautious enough to avoid giving definite opinions as to the details of its physiological action to congratulate hunself on his prudence. It is impossible to believe that Drs. Bocker and Hammond were altogether wrong to their researches. as to the influence of alcohol on weight and nitrogen; and the results that Dr. Parkes has arrived at will merely convince impartial persons that experiments of this sort need to be repeated on a variety of subjects before a reliable conclusion can be arrived at. Similarly, it seems out of the question that Drs. Ringer and Rickards in this country, Lichtentels, Möller, Binz, and Bouvier in Germany, and Tscheschechin in Russia, could be wholly wrong in their unanimous though independent assertions that alcohol diminishes bodily temperature. Where, however, there is such a direct conflict of testimony between first-rate authorities, armed with all the apparatus of elaborate physiological experiment, it would be an impertmence for the

mere critic, sitting condoitably in his clear to attach proposition and decrease. It will be more to the purpose it we accept this part of the observations of Parkes and West way a concept, and on that hypothesis with the estimate the concept, and on that hypothesis with the observations of particular the concept, and on that hypothesis with the observations of the observations.

Let it be greated then that a regards that be blue tady, alcoled has no influence one way or another on temps arouse and that it fails to influence the excretion of reflequence of plans phore and or chlorine or the tree arrive of the trace. It then be the way, the reader will preserve that the mean indictionate of the tectoral party in recent times somether which there will activity rannot be maintained shifts to the ground. But it that he the case, we have further to impure, what becomes of the very considerable quantities of alcohed daily taken into the system even by temperate drinkers? These it simply enter the body, and passing through it as an inert substance quit it unchanged by the channels of the various consistences?

Upon this latter topic Measra Paskes and Wollowicz give a very uncertain opinion, and we feel bound to my that their mode of dealing with the ignestion does not satisfy it. In face the two set of each botto do dudy consuming the event his the series, to exert upon lookily function the majores whether its really passes altogether or in great part unchanged through the organism demands a very searching and exhautive to import Our readers know that MM Lallemand and Person on the lineis of a totally insufficient and reserts quotitutes among us of the exercia, decided that climination was total. Mesers l'aikes and Wollowicz decline, in face of the strongly continuatory svidence given by Schulinus, and by Anstie and Dupre, to take so strong a view as Lallemand's, but they auggest that the English observers may have underrated the period during which elimination is continued and that, after all, a very considerable portion of the alcohol may emape unchanged, by the various channels of elimination. As to this we must remark that our observers are evidently unaware of the extent and multiplicity of Anatie's later experiments, which include many hundreds of observations upon the effect of single dows and appear to the sile unequivocally, that elim nation never centings by any channel so long as twenty four hours and that with anything like moderate describe whole presess terminates to rapidly that in some six or eight hours, on the average, it is improsphle to detect the faintest traces of alcohol either in breath, urine or sweat, even with the excessively delicate chromic and to to But we are auxious not to make our too strong a case and us might therefore concede, for argument a sake, that as much as one half of the ingested alcohol impht swape from the body unchanged 104 REVIEWS.

(though such a supposition will, we venture to say, appear wildly improbable to any one who has made a sufficiently large and varied series of experiments on the subject). Take then the case of a sober though generous liver, such as many thousands in the well-to-do classes, who consumes a daily allowance of two ounces of absolute alcohol: what, let us ask. becomes of the ounce daily of absolute alcohol which is neither exercical unchanged, nor yet oxidized within the body? A very simple sum in arithmetic will show that as the excess of ingestion over excretion goes on regularly every day, there would be an accumulation of alcohol within the body which would amount in the course of twelve months to eighteen pounds, or one-unth of the total boddy weight of an average male adult! A more complete and fatal answer to the elimination theory could hardly, it seems to us, be desired. But before leaving this part of the subject we must remark that our authors' grounds for thinking that elimination is continued over several days appear to us very weak. We venture to say that no sphygmographer of first-rate experience would confirm their opinion, on the evidence of the pulse-traces which they give, that the pulse remained affected by the influence of alcohol after several days' abstinence from the latter; and as regards the asserted "very slight" reaction of the urine to the bichromate test on this day. we must insist that it is far likelier than not to be a mistake, seeing that it is absolutely contradicted by what we have personally observed in our experience on this point, which we believe to be unique. Our readers will judge whether we speak hastily when we say; that during six consecutive months, in the year 1867, we devoted ourselves afresh to the daily examination. of this question, never taking a new dose of alcohol till every trace of elimination of the last had disappeared from breath, urine, and sweat. In short, we can see no grounds whatever tor reviewing the judgment to which recent resourches had led us, that all save a mere fraction of the alcohol ingested-especally in the case of moderate doses-is destroyed within the We may justly be required to suggest what can be the outcome of this daily oxidation of so large a quantity of a hydrocarbon within the body. According to Dr. Parkes (and we are much inclined to think that on this point he is nearer the truth than his antagonists) alcohol does not withdraw oxygen from its customary action upon the tissues and the ingested food during the state of health If this be so, we can only suggest that additional oxygen must be employed, and that the combustion of the alcohol by this must generate force; and as that force does not appear to manifest itself in the shape of generally increased hodily heat, it is difficult to avoid the conclusion that it must take the torm of muscular motion, or possibly this in part and gland-force

in parts. It it be true that for a healthy man the orders need between dunking water and drinking two council alcohol per diem means an increase in the heart s he retrievable thing like to of their total daily number, than as we know that multitudes of persons are in the constant habit of cor, unlong this daily allowance without ever raftering the slightly standard muschief, it is difficult to avoid the continuous that this retrieval amount of heart-work has been gained entitly in the expenses of the alcohol, and not of any waste of the most of vital power

One must extreism must conclude this laser notice diffidence that we question the logic of so that haded a thinker as Dr. l'arkes; but the impertune of the subject is so great that we must be allowed to protest, with all our force, against the inferences which he draws from the facts observed dames a slight caturrhal attack of his patient, which come and went, during the course of one of the alcoholu persols. He assume. because the temperature which was never higher than 1947, was not affected by the remaderable down of brain's which the man was taking that the power of alcohol to diminish tempera ture in pyrexu is combinately dispresed. We must deny the sequelar; the more so as wome published experience of pyrexial affections shows that large doses of alcohol, what the temperature is only slightly elevated, only aggresate the con . dition of things in every way, presiding tracestons and to be vating the dicrotic change in the pulse form while the verreverse is the wase when these tone down are given in a in ditions of very high pyrems. But upon these posters we hape soon, either in this journal or obswhere to lay a lirge and electrice mass of evulence before the profession

Notes on the Treatment of Shin Brunus. Its Router Liverse, M.A., M.D. Cautab Assuntant Physics in and Denie instrator of Skin Discussion at the Middlesex Hospital London Grey mans, 1870.

We regret that our space will only allow to to tay a said for words in commendation of the said to excellent little how he is the model of what a practical class how he heald how terms of a students to follow up intelligently the receivant of how he is a model of the loss produce the ment of health is to the constitute logistic discount of health is the most well once and authority their hand is usually the relative welcome and we to book the server conducted and a manufacture statements which are the curse of the first the spocket manuals.

### ·Clinic of the Month.

Treatment of Uterine Catarrh by the application of Carbolic Acid. -Dr. W. Playfair observes that in a large proportion of old-standing cises of uterine catarrh it's hopeless to expect a perminent cure by any means which do not act directly on the seat of the disease, which is the lining membrane of the cavity of the utitus and cervical canal beyond the external os, accompanied, of course, with secondary morbid states of the body of the uterus and cervix, such as hypertrophy, congestion, &c. Rest, applications to the exterior of the cervix, and general treatment, will unquestionably cause a temporary improvement; but on a recurrence to the old habits of life all the original symptoms return. There are serious objections to intrauterine injections, unless the os is first dilated with laminaria tents, as they are apt to bring on severe uterine colic. By means of fine probes of whalebone or flexible metal, round which a thin film of fine cotton-wool is wrapped, alterative applications can readily be made to the interior of the uterus without pain or danger. Dr. Playfair states that in the very mimerous cases in which this plan of treatment has been carried out, in no single instance has anything but the greatest benefit accrued. It is no doubt. advisable to select the cases judiciously, and where there is much uterine tenderness, intrauterine treatment should be postponed until this has been diminished by rest, leeching, &c.; but with proper precautions the treatment is perfectly safe. A concentrated solution of carbolic acid, eighty parts to twenty of water, is used; and it acts so well that for a long time nothing else has been employed. After the first application the discharge is sometimes increased, but after the second or third it is generally greatly diminished, and a single application is often sufficient to cure superficial erosions of the cervix. As a rule there is no difficulty in passing the probes, as in true uterine catarrh the or is invariably parulous. As the case improves the parulous state of the or diminishes, and this is found to be one of the most certain signs of improvement. Dr. Playfair appends the history of several successful cases. (See Lancet, July 2, 1870.)

Treatment of Scarlet Fever.—A correspondent of the lancet, as a septuagonarian and a practitioner of fifty years'

standings who during twenty years of that tink has filled spullhe appointment in a densely populated detrict of familia in which this disease was often conforme, do now to add his texts. mony to that of Dr bergus in fivour of the application of wid water to the Am during the hot star of the site inthan fifty years and when he Corre was in his chies and deservedly so, from the simplicity common a new and agreess which followed his treatment of his enginerally and it is other ofever particularly, by cold water ellission or lead to the our gar work. I well considered the plan of treatment adopted by him, and no sixin as I was called upon extensively to treat disage, which was were after that time, and in its nort formerable insula night an importented and extensively sulturing class, I adopted for Currie's plan in principle but not in the letter. Instead of using exclusive allusion or apprignic, by plan was to wrap the demaded body in a small short or taids cloth, while its out of a fail of calc. water, during the hot stage of fever in a miral, and enjoyedly of number fores, and to remat this application every two, times, or four hours, as here as the state of the moved beat restanced. which treatment, instead of being objected to or being very obnormal to the pateent was almost apprecially company to an myren tide application, that there adopt be to be the first transition as Man a heal to be regret of the plan a guar of the factorial t during from two to four 13% and if the Lineary disa armited My next temedy we to immerse the laste in a heat have the the to 97 reposible contains two as an interval of two class With this treatment I solden gave minimized. The stimulant given was aromatic finefule in one fluid del his closes or interrals as required with best ten and nulk, and from the begin ning to the end of the treatment the putnert teck from 10 to 15" minims of the diluted netro-hydrochlori and, with one fluid drachm of the wrop of orange-past in a wine glassful of water frequently, which had the double effect of trying automptic to the symptic process existing, and of gratifying the plate and reliving third." The writer states be had a credy ever to lament subsequent dropsy. He can fully avoided purgues the patient during the progress of the disease, though in at stentist was paid to the bowels See Lancet July 16 1870;

Blood-letting in Scarlet Fever. In Branwell, of Perth, states that many years ugo be had formed as in hopemon of the value of blood letting in acute culation dropsy and more ample experience has only served to condimination in his former years. During a late severe and protracted epidemic in Perth dropsy as a sequela has been unusually common and very deadly note cases dying from this cause alone out of forty four fail cases. It was observed that three tourths of the dropsical cases were

preceded by a mild attack of scarlatina. Cold was certainly not the exciting cause, as the majority were carefully watched and never exposed at all. It seems more probable that, when the scarlating rash is comous, the skin does the bulk of the poison elimination work; when the contrary, it is the kidneys which suffer from the poison, become congested, and hence the anasarca. The anasarca was usually ushered in by febrile symptoms. quantity of urine excreted varied, but the amount of urea was always low, and albumen was always present. In regard to . treatment Dr Bramwell observes that nothing is to be compared to blood-letting in the dropsy which follows scarlet fever; it is incomparably the best diurctic, and often turns the tide when all other means have failed. Some of the milder cases will indeed do well if sharply purged and freely sweated; but there are many cases that altogether refuse to respond to such treatment, and diuretics even of a mild, unirritating character, such as digitalis, with bitartrate or acetate of potash, do not better the patient's condition in the slightest degree. As a general rule, local depletion, from two to six leeches over the loins, according to age, will answer every purpose; but should uramic convulsions ensue, general bleeding will be found invaluable, both in arresting the fits, and in restoring the secretion of urine. When the patient is over eight years of age, eight or ten ounces should be drawn, or a decided effect will not be produced. Uhloroform may here also be used with much benefit after depletion. Bramwell adds the details of several successful cases. British Medical Journal, July 9, 1870.)

Tic Douloureux cured by Galvanism .- An interesting -case is reported from the practice of Dr. Wilks, of a patient who first began to suffer from maralgic pains in the left side of the head. At first the pains, were slight and transport, but they gradually became worse and more frequent, until they were now exerneiating, and brought on by shout causes, Such as blowing the nove, talking much or cating. The nerve involved appeared to be the first division of the fifth. She had lost all her teach on that side; she had never had theumatic fever or ague, and was in other respects in good fie ilth. She was ordered three minims of fracture of acouste three times a day, but this produced no improvement. On February 1st she was ordered a dischin of chloride of ammonium every six hours. February 7th, being no better, she was ordered half a drachm of the hydrated peroxide of iron and three grains of sulphate of quinme every four homs. On February 11th she was no better, and was ordered fifteen grains of brounde of potassium every four hours. On February 17th she was no better; all medicine was ordered to be omitted, and a continuous current of galvanism from twenty-five cells to be applied after the storing aduably improved. On February 28th she was much latter On March 18th she went out, saying he was quite well. But she Medical Journal, July 9)

Effectual Plugging in Epistaxis. It is governly expected when the anterior and posterior narry are plugged that a close forms on the floor of the nose, which compresses the corne M Fano of Paris indexions to compress with more certainty in the following manner | Instead of tying a photost of cotton or hate to the free and of the thread, which has been made to enter at the nose and emerge from the month, M Fano ties a series of little pledgets along that string, in the same fushion as papers are tied to the tail of a kite. The strong being now rulled from the rasal end, is made, by a little marragement on the velum to passe behind the latter with its keep or five pledgets, until the latter are fairly lodged in the noise, the last pledget of course orcluding the aperture of the pesceror names. The front must be plugged in the usual way. The whole is left four days, and the sucress in the cases cited by M. Fann has been remarkable. (See Lanert July 2, 1870.)

Diphtheria treated by Sulphuric Acid. - For Rubitions states that having read Mr. Pollick a paper on the removal of . carjous bone by the application of sulphure acid, he thought if might be equally efficacions in its action on dead adventitions tissue or talse thembrane as in that of cliphtheria and he had speedily an opportunity of patting it to the test, for he was west for to a steady, well-to-do tradesman, aged 60, who had been a fortnight under the treatment of a herialist. There was acute bronchitis complicating diphthema; pulse 120, weak and intermitting; respirations 30; temperature of the mouth 101" tongue, tonsils, and pharynz were thickly coated with the characteristic membrane. The inthmusfaucium was marly blocked un Dr. Balbirnie got two small sponge more firmly we used to sticks. and after a few rigorous amplications of the sulpheric acid, with half water, succeeded in clearing off the whole observation. The dissolved membrane came, away todals by gargling and rinsing the mouth. The pain did not lest long and the miscous membrane was not excorated, only heightened in colour relief to the breathing to the fitor, and to all the availables was speedy. Next day there was a slight fresh exadation will hem application of the acid was at one removed. Convalencemen was prompt, and the man was up in a few days and down states in his parlour. The plan of treatment suggested by br Balbirnie seems to be deserving of further trial (That July 9, 1870.)

Treatment of Typhoid Fever with New Milk.-Dr. Yule furnishes corroborative testimony of the value of this method of treatment, having had twenty-six successful cases on this form The indications he considers should be followed are. to check diarrhoea and to nourish and cool the body. With these objects in view, astringents were used in all the cases (with occasional doses of ipecacuanha), diluted sulphuric acid being found most serviceable. The acid was used from the beginning to the end of the fever. When the diarrhea was violent, the most powerful astringents were used: and when the bowels were once locked up, they were so maintained for from ten to fourteen days, with not only no inconvenience, but with decided advantage. The milk supplied was cold and new, and taken ad libitum. No wine was given during the active continuance of fever, as it increased the diarrhoea when tried, and promoted delirium When the fever had left, and the patient became exhausted and sleepless, then a few ounces of wine in these cases did well. In two cases, where there was great pain in the ilium, blisters there applied did good. • He believes that milk nourishes in fever, promotes sleep, wards off delimium, soothes the intestines, and in fine is the sine and non in the typhoid form. (See Med. Times and Gazette, July 9.)

Prevention of Pitting in Smallpox.—Mr. Higginbottom refers to his formerly expressed opinion, that the application of nitrate of silver is safe, simple, and efficacious in preventing the pitting of smallpox. The concentrated solution should be applied on the whole surface of the face and ears, in the same manner - as is recommended in ervsipelas—the solution to be applied on -the second or third day of the eruption. The progress of the vesicles is immediately arrested, and in four days they present small hardened eschars free-from inflammation. In a few days the exchara come away from the face without leaving pits. nitrate of silver not only prevents the pits, but the milanmation, nritation, and offensive supportation which are so distressing to the patient The nitrate of silver might be applied all over the scalp (if the head were previously shaved), as in erysipelas, to prevent cerebral inflammation" (See British Medical Journal, July 16.)

Treatment of Mesenteric Neuralgia. 1)r. Eulenburg, in the course of his lectures on mesenteric neuralgia, remarks, in regard to the most important form of it that, namely, produced by saturnine poisoning—\*\*relead columnation of the freatment must be directed towards the channation of the lead salts from the body and the prevention of the recurrence of poisoning—For the purpose of climination those drugs come into play which increase

the secretions, as layatives, dimeties, and simplicative afflorcoal baths are renowned for their power of chimicating lead through the skin, and it cannot be disputed that the thernal waters of Arr-last hapelle have preduced good results in many . cases. Elimination through the kidness is adul by undule of testament, which forms a soluble double salt with the lead come tounds present in the bleed and to me As a prophylicity measure and a condition one quit non of complete recovery chapped of excuration is necessary, but that can recely be adopted Workers in lead must avoid dust as much as they in, inget not eat in the workroom, must take insment walks, and is perticularly accupulade in matters of chanlesons. He agrees with Obsterion in thinking the administration of chemical prophylactica, experially of preparatures of sulphur, which are to form insoluble sulphates with the lead depended, to be useline, as is also the mivice to avoid common salt, so as to prevent salutage of the inhaled particles of had. The employment of narrates, and especially of opnim, is on the other hand, of great salue, and he has been the most striking effects president by the bypedermic micrtion both of opport and of morphia. Helladorina. livemenamis, his venissa, and no elimitate more unsertain in their action than optim ("blooderm may be recommended internally. The peculiar mode of action of the missors was parely. explained by the experimental of North He to be but consider and stryclimine increase by reflection the irreshility of the exists motor ganglia of the intestines. These latter risk them contestact the effect of the inhibitors fibres of the planetine nerves, the irritability of which is increased degray the parocyana Warm baths and the local application of heat he means of " \*embrocation with warm oil or large positions to the abbaness may be resorted to as alight pullatives in lead and other forms of colic. On the contrary, Monneyet has recently recommended cold as a palliative, but he has tound no followers Times and Garitle, July ! )

\*Treatment of Complications of Scarlet Fever. - In Spender, of Bath, discusses the treatment (I of premio in flammation of the points, (2 of delumin and 3 of cervaria abscess. In regard to the former, he considers the two most trustworthy means are in the local application of he it end moisture, and (h) the administration of quinner. Forest by says, the joint or joints with some hot medicated that surremarks he with a layer of cotton wool and place over this again a parce of oil-silk, which should be tied down occurry above and below the joint, so as to protect it from disrupts. In one case he began the use of quinner without delay. One as un see given in an ounce of acidulated water every three hears night and

day, and, the bowels having been opened with castoroil, no other medicine was prescribed. The fall of temperature was the first notable effect, and this was distinct and abrupt on the day after the treatment was begun; and again, in twenty-four hours after this, the heat of the body did not exceed the normal standard. Simultaneously the development of local symptoms was arrested and convalescence was rapid and complete. Quinine thus appears, as Dr. Binz has shown, to be an antiseptic and antiphlogistic. Delirium, as Dr. Gairdner has shown, is frequent and not very dangerous in scarlet fever; but there are two forms-one occurring in adults, which is usually an index of high fever, and requiring but little treatment; the other in children, occurring later in the disease, of much more serious import, and arising from some sudden impairment or stoppage of the renal function. Here shaving the head, blisters behind the corn with compound scanmony powder, warm beths, and malk food, may be employed with advantage. Cervical abscesses he opens early and by a (Res British Medical Journal, July 16.) valvular incision.

Treatment of Urethritis -- Dr. Stein, of New York, after commenting on the general inefficacy of copaiba and cubebs, the oil of Erigeron Canadense-which, it appears, has some celebrity in America—and some other drugs in the treatment of gonorrhoed remarks that the remedy which has given him more satisfaction than anything he has hitherto employed is the oil of vellow sandal-wood, which has often been found successful in cases which had proved rebellious to other means. It has the advantage that it can be taken in the majority of cases without . inconvenience or without disordering the system. It has to many a very pleasant odour, not at all an objectionable taste, and a very soothing effect upon the inflamed unethrareason it can be administered with benefit even while there is considerable scalding and pain. The oil is obtained by distillation from the wool of the East Indian tree Section mystifolium. The close is from lifteen to sixty drops three times a day, taken with hig potisse, or in people mint water, or perhaps preferably Forty-eight home is often sufficient to suppress a in capsules very abundant flow (See New York Medical Journal, June 1870.)

## Extracts from British and Foreign Journals.

Eucalyptus Globulus as a Remedy for Intermittent · Fever.—Dr. Lorinser gives the details of a series of observations he has made upon the therapentical value of this plant which m one of the myrtle tribe, in same, in continuation of his experiments began in 1860. The leaves of the plant were macerated in spirit and when a sufficiently attempt tincture had been obtained, he distributed it amongst various physicians associains in the againh regions of the rivers Theise and Danube in Hunmary. The fevers treated appear to have been of all kinds of the intermittent form, quotidians, tertiaus, quarteus, and irregular types. The number of cases was fifty-three. Of these fortythree were completely enred. Eve eithers were impropert, but in convequence of a delicient supply of the tineture, qualita was resorted to, and the remainder were exceptional. The dose of the timeture administrated a good from two drawbors to half an Amongst the life-three cases there were eleven in . ounce which commine had been tred without boucht and of these eleven cases none were quite entered by the tenefure. In ten cases only did a related occur, and then it was traceable to errors in dict, exposure, &c. There seems, then, to be no qui stion that the leaves of this plant possess powerful febrifuge qualities, and those who are desirous of trying it can obtain the timeture from Dr. Lamatach, Wieden Haupt-strame, No 16 (Wunter Medirie Workens., No 27.)

Extraction of a Pin from the Urethra.- M Tu ut mports a case in which a boy, aged 7, introduced, at the instance of a school-fellow, a pin into his urethers. It should from his light, and as usual retreated along the passage. In examination on the following day, the mucous membrane of the mentile was red and swollen: the penis and thriuman were slightly enlarged. No pain was experienced whilst the child was lying on his last If, however, he moved about, or embessoured to muturate he felt an mute pain in the primaum. The bladder was gumeanently filled and was beginning to be troublesome states that he at first felt some embarrasement as to the mode of procedure to be adopted, but having read some time previously of a similar case recorded by Dr House, he put the same mand-uvres in form. The fore-tinger of the right hard was introduced into the rectum, to constitute a point deposit, NO. XXVI.

and to enable him fo discover the situation of the pin, which could not be felt through the perinaum. He was only able to feel the point in front of the scrotum. Pressing strongly with his fore-finger against the anterior wall of the rectum, and with his thumb on the perinaum, he made the point press against the inferior wall of the urethra. On raising the penis briskly with the finger and thumb of the left hand, the point perforated the walls of the canal. It was serzed with forceps and drawn out for three-fourths of its length. The point was then directed towards the anus, and by pressing back the glans the head presented at the meatus, and was easily removed. The child was placed in a warm bath, in which he easily passed water. Cold lotions were then applied to the scrotum, and in a day or two the child was well. (L'Union Médicale, No. 68, 1870.)

Galvano-caustic Mode of removing Tracheal Tumours. —Dr. Türck calls attention to the great value of this mode of treatment, remarking that the instruments required are extremely simple, that they can be bent to any form, that their application produces no pain beyond a slight sensation of heat, though perfectly efficacious in the removal of the tumours; that the time occupied in the performance of the operation is extremely brief; that the after results are nil; and that, in particular, bleeding does not occur. (Klinik der Krankheiten des Kahkopfs, p. 579.)

Therapeutic Value of Chloride of Iron.—M. W. E. Schaller gives the following statement as the results of his experience with this drug. The fluid concentrated chloride of iron is an unfailing remedy for chilblains, its application to them for a single day effecting a cure. It may also be used with advantage in cold climates for frost-bites. It is to be preferred to every other agent in the local treatment of pseudo-membranous affec-When diluted, it purifies and aids the healing of diphtheritic ulcers Applied internally, it destroys the pseudomembranes of scarlet fever, and in the majority of cases cures the patient. It is preferable to overy other drug in the treatment of diphtheritis not associated with scarlet fever. It is equally serviceable in croup, especially when applied with a pulverizer directly to the parts affected. It will sometimes effect a cure of aphonia and various affections of the voice and respiratory organs, for which other remedies have been employed in vain. It is often successful in relieving angina. (Wiener Medizinischen Wochenschrift, No. 20, 1870.)

The Food of Infants.—I)r. C. A. Coudereau expresses himself in opposition to the generally received opinion that the milk of a wet-nurse is the kest substitute for that of the mother when

the later cannot be obtained. He has found in the ratik of name, wet ourses derendent on their want of cleaniness a pseudent image, which will develop under favourable creams stances in every other kind of milk, giving to such milk a pseudent odoul, and discoverable in the evacuations of the child. In regard to artificial food, he rejects also beld-ten, as well as Liebig's extract of ment, but recommends a find into the composition of which eggs enter largely. He considers that a very nourching and wholesome kind of drink can be obtained from eight eggs, white and yolk together, beaten up with about two ounces of sugar and enough water to make a pint and a half of fluid. To thus he adds a small quantity of lime-water, sulphase of potash, and chiefide of sodium. With a faild so composed he has obtained excellent results. (Wenter Malinialistics Madean schrift, No. 23, 1870).

Cases of Nerve Irritation cured by Surgical Operation. -Dr Packard, of Philadelphia, records some interesting cases in which nervous irritation existed, and which were concludely cured by operation. In one of these the terminal filaments of the median nerve at the side of the last phalanx of the right thumb were the mat of irritation in consequence of a large sulinter of wood having been driven under the mail. Three days after the \* accident she was otherwood, and the solution extracted. The wound healed one kly, though the swelling subsuled sirely. Three months after the child uped 11, had cloves movements of the whole body, of all the limbs and of the new the right half of her person being somewhat more affected than the left. She had lost flesh and strongth, was leverseh, irritable, and unable to fix her attention upon anything. Her appetite was bad. Locally there was soundsvention of the affected thumb. which she could not use in groupling; and she could not use her right hand at the table or in writing or sewing. She was naling from quining, and arrends under other advice. Packard recommended protection of the thumb by a planter containing the extracts of opium and belludence, and change of nir. On her return from the wands amon improvement had occurred, but the arregular movements will continued, and she som man began to lose condition, upon examination there appeared to be one point of especial sensitiveness at the edge of the thumb-nail, and it was agreed to attempt exsertion of the Accordingly, a large semicircular perve-filament involved flap was removed, the nerve filaments could not be distinguished, but the subsutaneous fat and arcolar theses were cut away, and the wound was closed Beating took place very readily. The child was noticed to be much steader in a very fow days, and this improvement continued, until about two

months after the operation her choreic symptoms had entirely disappeared. At the same time she gained flesh and strength, her appetite returned, and her temper became calm and natural. The tonics were still kept up until her health was quite restored, and then gradually withdrawn. Ten months after the original injury, and four after the operation, the child was still well, and the nail had almost entirely resumed its natural appearance. (Hay's American Journal, April 1870.)

A New Mode of treating old-standing Luxations of the Humerus forwards.—Professor Heine, of Innsbruck, after referring to the different modes of feduction that have been adopted, recommends the following plan. The patient is to be placed on his back on a bed that is not too low, and in a nearly horizontal position, the upper border of the shoulder projecting a little beyond the edge of the mattress, and the head being supported by the hands. The operator now, with the aid of two assistants, fixes the external border of the scapula of the affected side by a long towel, placed transversely across the chest, with another running over the affected shoulder and brought obliquely over the chest and back. He then stands on the side of the dislocation, seizes the arm; which is bent at right angles, at the elbow joint, so that, if it be that of the right side, he grasps the wrist with his right hand, and the upper arm just above the elbow with the left, elevates it slowly in a forward direction until the fore-arm comes to lie obliquely over the vertex of the cranium, and the upper arm is in the longitudinal axis of the body, and parallel to the head. The elevation is still continued till the elbow of the luxated arm is brought behind the plane of the occiput, so that the dislocated upper arm and the dorsum of the patient form an angle open behind, though very obtuse. The operator now allows the head, of the patient, which has up to the present time been in the same plane with the shoulders, to sink to some extent, and describes with the still finaly-held dislocated arm a wide are in front of the face, towards the healthy side, and back again over the chest, until it is quite depressed, and with a slight rotation of the arm outwards the elbow is brought to the side of the thorax. During the performance of this last movement, another assistant must. at the bidding of the operator, introduce his two thumbs at the proper moment and press the head of the humerus outwards into the glenoid cavity. The essential feature of these movements consiste in an hyper-elevation of the arm with subsequent circumduction of the rectangularly bent arm. (Wiener Medizinischen Wochenschrift, No. 25.)

On the Action of Bromal-hydrate on the Animal Economy.—Dr. E. Steinauer, of Berlin, contributes a paper on

this subject to the last part of Vinhou's Archiv Burrenate hydrate presents a precise chemical analogy to chloral hydrata. the chlorine of the latter being replaced by bremone it was obtained as long ago as 1932 by Lowig. It Stemments . first experiments were made on animals with a view to determine whether a separation of bromoform occurred in the spanner from the action of the free alkali in the blood, and farther, whether the bromoform was channated as with from the organisin, or was oxidized to the brounder. From expensiving on rabbits and dogs, in which it was subcataneously injected it was clearly demonstrated that bromoform was decomposed in the blood, and there was good reason to believe that this underwest exidation during its passage through the system. The result of a series of experiments on rabbits, gumes-pigs, and dress in which the hydrate of bromai was subsutaneously injected in desse varying from about 2 to 15 grams, were, with alight entiations in regard to time of appearance, as follows: restlements and contraction of the pupil occurred immediately after the injection; in the course of a few minutes the oral and assal macons membranes became hyperature; the animal then twinkled the eyelids, keeping the cyclids a moment chard, and, though nover falling thto a sound sleep, often gave a andded he's as if waking out of a dream. In wveral cases there was a flow. of the secretions from the mouth and most. The sormal then became anostheticised; the respiration very frequent, and dvaphon and cyantsis followed. The papils became expanded the movements of the animal uncertain, and the hypostic effect more pronounced. It squatted down and milled over, recovering its former position after a few seconds then have and pricking were not felt in any part of the body, though reflex Dyspuces became more violent, and the actions occurred. animal died in convulsions, or the requiratory movements and pulse gradually sank till death took place, wently preceded by convulsions. Amenthrsis generally supervened with medium duses a considerable period before the cummencement of dyspnors, but with large dome costaneously, or even subsequently to the occurrence of the dyspage. In accordance with the done administered, the heart after death was either relaxed with dark red coagula in the caveties, or tetanually contracted employing hydrate of bromal as a therapeutic agent in man, M. Steinauer considered rightly that it was requisite to take unusual precautions, as very small doses proved fatal in antmals- a grain and a half, for example, killing small dogs &c. and a still smaller quantity rabbits and gumes-page. He trad it first upon an epileptic, then upon an means patient and finally upon another emleptic, with, upon the whole, satisfactory results. The effects upon the brat epileptic are very fully and carefully

detailed, the quantity given to her, in the first instance, being 0.06 of a gramme, or rather less than one grain, but gradually rising till it reached, on one occasion, 15 grains. (Virchow's Archiv, Band L., Heft ii., July 1870.)

Treatment of Relapsing Fever. — A very interesting article on the relapsing fever that has appeared in Edinburgh during the present year appears in the current number of the Edinburgh Medical and Surgical Journal, in which its origin. symptonis, treatment, and pathology are fully given by Dr Claud Muirhead. In regard to the treatment, which is the only point we have space to notice, Dr. Murhead states that in the cases that fell under his own care and those of his colleague, Dr. Fraser, it was chiefly expectant, except where there were plain indications demanding interference. The experience of former epidemics held out little encouragement as to the possibility of checking the fever or of preventing a relapse, yet it was resolved to make another attempt with those remedies in repute as specifics in cases of intermittent fever, and Df. Murhead endeavoured to follow the indications given by Nature in her apparent efforts to eliminate the poison, whatever it might be. Thus the first method seemed to be by voiniting; accordingly an emetic was administered, and this was found to give relief to the retching previously experienced, and to empty the gall bladder, but it neither cut short the fever nor rendered the paroxysm less severe. Another method of relief adopted was cold packing. In some cases this afforded relief by inducing gentle action in the dry and hot skin by lowering the temperature one degree Fahr. for an hour (though this was not invariably the case), and by diminishing the frequency of the pulse. Nevertheless the constant changing of packs, wet sheets, and cold douches, was found to greatly fatigue the patient, and to induce greater prostration and sweating than usual when the crisis came. This treatment in no way shortened the attack; it only relieved the subjective symptoms. Sleeplessness and intense neuralgia, when present, were readily overcome with chloral given in appropriate doses without had effects in any To prevent relapses quinifie by the mouth was tried, and subcutaneously as acetate of quipoidine, as well as in combination with iron and nux vomica. Arsenic was also given in large doses, and nux vomica combined with iron. The result was in every case the same; none of these remedies prevented a relapse. (Edin. Med. and Surg. Journal, July 1870)

Treatment of Ileotyphus. — Dr. Adolf Baginsky, of Seehausen, gives an interesting account of an outbreak of this affection that occurred under his observation in Eggenstett, in the extremely hot sumface of 1868. Eggenstett, it appears, is a

village with 800 inhabitants, nour Sechanien, and near & large wood. The inhabitants are principally agricultural labourers. About 50 were afflicted, 16 hang from one to ten years of age. 11 from ten to twenty, 14 from twenty to thirty, and the west above thirty." The symptoms were of the ordinary kind, the cruption, however, being sparingly developed, whilst harmorrhand from the nose or bowels occurred in several cases, only three cases died. The mortality, therefore, was six per cent . Hagingky having seen the advantage of the cold water armen in Trumbe's climic, endeavoured to carry it out at Eggenatett, in the absence of proper appliances for baths, &c., by the application of large compresses, which were changed every five minutes after being dibned in hell water, and wrang out as dry as possible. These were placed on the budy, short, and head, and the n most rightnessly carried out both day and night. The effects he ever, were not nativiactory, the patients becoming much were in the course of the second or third week, with cold extremetics, pallid face, failing pulse, &c. the worst cases being the somest affected, and the rold compresses were consequently given up.

The patients were allowed from the commencement to drink a two and half per cent solution of hydrochloric and and subsequently five grains of quinties every two losses. Milk and broth were allowed, but no solid food, and he some had to have. recourse to port wine. When the symptoms were severe ha found small doses of a murture of lengue sent and escapace exceedingly valuable, given every two boors. The only objection to behavior acid is, that it has a tendency to augment the When hamorrhage occurred has found action, treatment was required on account of the collapse in lurge, and nothing answered so well as the timet form araquichlored in Arre drop doses every two hours. He states that Trauls has broad tinct, of strychmu very otherwious in checking diarrhees, but it must in all instances by given in much agineria fluids. (Variance

Archiv. Band XLIX, Helt iv.)

New Vesicant .- M. Delpech draws attention to the fact that the emplast, vencatorium of the French, Prassian, and other Pharmacoperas, has the deads intope that the proportion of the active material chith train to very variable, that the processes of any oily substance facilitates the absorption of a dangerous porson, and lastly, that the results an numbersons cutaments stunulant, whilst it render the smell of the plaster very un-An excellent vesuant which possesses none of theme disadvantages, exists in the combination made by Dragendorff and Massing of canthaudin with alkalies M Delpoch and Massing of canthardin with alkalies employs the canthardinate of potash, which is very polatile, and possesses in a high degree the histering power, from an alcoholic solution of cantharidin containing 2 granfmes in 150, about 1.6 grammes fall on the addition of a concentrated solution of alkali of a precipitate which is absolutely insoluble in water. The best formula for the application of the preparation is, gelatine 2.09, water 10, alcohol 10, cantharidmate of potash 0.20, and glycerine 9.5. The mass should be equably spread on a thin layer of gutta-percha, so that each square inch should contain a definite proportion of the salt; it may of course be made stronger or weaker at will. (Centralblatt, No. 27.)

Climate and Consumption.—A smartly written paper appears in the last number of the Australian Medical Journal on this subject, in which Dr. S. D. Bird advocates a voyage to and residence in Melbourne for the melief or even cure of phthisis. There are few therapeutical agents, he points out. whose operation it is more necessary to avoid looking at from the microscopic point of view, than change of climate; and the fact of the almost complete desertion of such places as Madeira. for instance, of late years, and the great influx of invalids to antipodal alimates, shows how completely the views of physicians in Europe have altered and enlarged and advanced with the age in this as in all other subjects. To praise a place as a residence for invalids of any kind because it is dry, or moist, or equable, is decidedly the microscopic way of dealing with the subject. The rational physician first asks himself what is at the root of all the symptoms, and, if he can ascertain this, endeavours to find a change of climate which will act beneficially both in the general and in the particular, both in neutralizing the tuberculous cachexy, and in quieting cough and other local symptoms: climate should in fact be used as an alterative, and any climate is good or bad for any given case, just in proportion as it acts in opposition to the known causes of disease; or in failure of any known cause, reverses the condition under which the symptoms originated. Now, to a large section of patients suffering from tubercular disease originating in Europe, the change to an Australian climate fulfils both general and particular indications. In the first place it is a complete change; and if a remedy is determined to be suitable, the more thoroughly it is applied the better. A very large proportion of British phthisicals originate from particular faults in the home climate itself,—darkness. dampness, and chilliness. In Australia they obtain light, dryness, and warmth. That is to say, the change is both complete and for the better, as it is known that the former conditions favour the development of the scrofulous diathesis, and the latter hinder it. Dr. Bird alludes to some remarkable cases of recovery from telerculous disease. (Australian Medical Journal, April 1870.) [We do not believe in Melbourne for phthisis.—Ed. Pract.]

Treatment of Ranula.-This subject was brought but to the Paris Surgical Society at a late meeting, in the shape of a case of congenital ranula occurring in an infant, related by M. Best The tumour, which was perfectly transparent, and as large as a hazel-nut, finshed the tongue upwards and manufal its house. ments, especially during sucking. After heafaing as to what of the different procedures he should adopt, M. Blot riavies of the tumour with a tenaculum, and drawing it out out that it and at the end of three weeks the infinit remained and of them foly M. Marfolin stated that at the commencement of his practice he was an advocate for excision, but he had remounted at, or consecuence of the face or less serious harmorrhage he had us several cases seen it occasion, requiring in same of these the actual cautery for its arrest. Since then he has employed a seton of one or more threads, which is allowed to remain as mis for a fortnight, a month, or even longer. Someonather inflammation is set up, which leads to obliteration and a reducal rura. When the children are some years old, he evadors the seton more irritating by souking the threads in thatture of minus. M. Marjolin states that his practice is unattended with any inconvenience, impeding neither sucking nor feeding, and has never needed to be repeated. M Chassaupur, however, does mut approve of the seton, as it sometimes gives rise to extremely . violent inflammation, tunislation of the tissues, and a recessed suppuration. He prefers the application of a small dramage toho, which, traversing the tumour, may be secured to it and which gives rise to only a very moderate degree of inflammation He also feared excision on account of the diame of he merris are . M. Blot observed that bleeding was not likely to one us after the excision of transparent tumours, and he was surported in this statement by M. Forget and M. Ciralde. M. Chain at had cured a ranula the size of a hazel-aut authout operation by intratage the thin, see with pressure; the fluid was reproduced, but on repeating the rupture it did not again retur. (Molumi Pusce and Gazette. June 4.)

Quicksilver Suppositories in Constitutional Syphilis.—The following simple mode of treatment, it supported by experience, recommended by M. Lebert, will probably be largely employed. Proceeding on the known fact that next to subscutaneous injection, the best method of effecting absorption is by the inucous mendiane of the rection M. Lebert has experimented largely with various medianes, and amongst others with mercury introduced in the form of a suppository. He employs caeao butter as the menstruum, or if it is desired to make the mass of inner consistence he add was and the unguentum hydrargym is then rubbed fip with it in small and

appropriate doses. If any burning pain is experienced, it may be removed by the addition of a little morphia. The suppository is usually introduced at night, and allowed to remain for some hours, or till morning. In three or four days the cure is completed, with the employment of from twenty-five to thirty suppositories. The mouth was not in any instance affected. (Wiener Medizin. Wochens., No. 27, 1870.)

On the Therapeutic Value of Gastric Juice.—Signor Arturo Menzel, in an interesting paper, supports the experiments and results of older experimenters in regard to the value of gastric juice in cancerous tumours, and has collected a considerable number of cases, in which it has been employed with advantage, either in true cancer or in lymphoma. It acts superficiently on malignant ulcers, and especially on the neoplastic granulations, and altogether destroys their feetid odour. The juice of dogs was that employed. (Gazetta Medica Italiana-Lomburda, 11 Giugno, No. 24.)

Secale Coruntum in Paralysis of the Bladder.—Dr. Theodor Roth, of Eutm, furnishes the details of a series of cases in which ergot has proved advantageous in the treatment of this The following is one of the cases he describes. A ·labourer, aged 49, of powerful build and otherwise in good health, experienced, for some time previously to seeing Dr. Roth. difficulty in passing water, consisting in frequent desire and pain, whilst on attempting to micturate a delay occurred, which was not overcome or shortened by forcing. When the water at length flowed it only dribbled. On one occasion he had been working for many hours with the feet in wet earth, and onmaking the attempt, found it impossible to pass any water. Violent efforts to micturate gradually came on, with pain in the lower part of the belly, and he then applied to Dr. Roth. the introduction of a catheter, a large quantity of urine was evacuated, by which the pain was removed. Twelve doses of ergot were now administered, of about eight grains each, at intervals of three hours. He was told to return if any inconvenience in the passing of the urine was experienced, to keep himself at rest and warm, to take slops, and to evacuate the bladder as soon as he felt any desire. No further treatment, however, was required, and the state of the man after the lanse of six days was better than it had been for a long time previously. (Deutsche Klinik, 28 Mai, 1870.)

### Notes and Queries

#### DEPARTMENT OF NEW INVESTIONS

CONDY'S PATENT FIX IDS—The extramely powerful oridizing properties possessed by the manganates and permanganates have been well known, and have frequently been made use of in the laboratory of the elemist for a considerable time past. The merit, however, of introducing these salts to the general public as most valuable desclorizers and purificus belongs, we believe, in Mr. Condy. But though the initiative in establishing their manufacture on a large scale thus belongs to Mr. Condy be seens to have allowed himself to be outstripped in their economical production. In, the following table will be found the strength of three kinds of Condy's patent fluids as sold in London, measured by their oxidizing power in comparison to pure permanganate of potash.

To a due appreciation of the table it is necessary to lear in mind that the crystallized permanganate used for compercion is a chemically pure article, while Coody a finels New 1 and 11 sees solutions of the impure crude article and that even the comised water does not contain the absolutely pure salt. With these explanations the table will speak for itself.

professional transposessory, where we seem the de-	*	3 4	5	• • •
Description of Astrola.	The state of the s	A continue to the section of the continue to t	And the second of the second o	The county of th
No I - Green Find  No II & Hind  No. III Ozonized Water  Pure crystallized Perman ganate of Potassium	" / (er 743 To 10 with 11d per 7 % 11th per 7 % 11th per 7 % To per 13, 2a per 13,	1 70 174 12 8 174 44 1 146 5 10 1 146 6 16 6 14 10 16	Fri 11 - + 14 15 54 15 54 15 4 4 5 4 4 15	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#### Particulars of Samples analysed.

No. I. Condy's Patent Fluid (green solution).—Contained in glass bottle holding 715; sold retail at 6d. per bottle, or about 5d. per 715 contents. The bottle was wrapped in pale buff-coloured paper, nearly covered by two large labels with green print. Cork secured by a strip of label, on which was printed "Condy's Patent Fluid. For destroying all offensive odours.

Will not stain when diluted."

No. II. Condy's Patent Fluid (red solution).—In glass bottle holding 713; sold retail at 1s. the bottle, or at about 11d. the contents. Buff-coloured wrapper, nearly covered by two labels with red print. Cork secured by strip of label, on which was printed the Trade Mark, a triangle enclosing a  $\Theta$  surrounded by "Trade Mark—Condy;" further, the French and English prize medals; and, lastly, printed in two circular spaces on one side, "Condy's Fluid. Does not stain when diluted." On the other side, "Natural Disinfectant. N.B. The cork in each bottle of Condy's fluid is secured by a strip identical with this."

No. III? Condy's Patent Ozonized Water for Toilet purposes.— In small stoppered bottle holding 43, price retail 2s., leaving about 1s. 8d. as the price of the contents. The bottle is nearly half covered by a label, on which are printed directions for use, prize medals, &c. The whole label nearly being covered by

trade marks arranged in a pattern as a groundwork.

The active agent in No. I. is chiefly the manganate of soda, though in the table its effect is measured against its equivalent of permanganate. In Nos. II. and III. the active agent is chiefly the permanganate of soda, though they contain also some potash. They have also been compared to permanganate of potash.

The crystallized permanganate of potash used for comparison was bought retail for 2s, the ounce. It was in fine crystals, contained no soda, and its oxidizing power, as measured by pure oxalic acid, was exactly equal to 100 per cent. of permanganate

of potash. It was, therefore, chemically pure.

# CORRESPONDENCE.

CHLORAL IN I)LLIBIUM TREMENS —Mr. W. Rigden, Physician's Assistant at University College Hospital, sends the following

notes of cases under Dr. Russell Reynolds:-

CASE I.—A clergyman, aged 40, has been a drunkard for years, but worse since his marriage three and a half years ago to a woman beneath him in station, and with whom he does not seem to have got on well. He has been in the habit of taking all kinds of drinks. Has had delirium tremons several times, the

last bad attack being a little more than a year ago benfitunes he has gone for six mouths without taking any drink

His father died of paralysis from discuse of the brain. The

history of insanity is very uncertain.

On May 3d, 1870, having been pretty steady for six months, he began to drink, brandy especially, and our May 8th he had become so violent that the doctor in attendance placed a keeper over him; he still, however, continued to the some here and brandy.

May 41th.—When he was admitted, the keeper said he had not slept for a week till the night before when the doctor gave him a dose of a new medicine (probably chloral), and he had acres hours' sleep. He had been very in-nonlous; taken very hade food; very violent at jimes, especially on seeing his wife

On admission his tongue was a little contest, slightly themselves, there was slight trenfor of arms, pulse was a little ever 100, moderately full. He complained a great deal of his wife whom he threatened to kill, and of his being detained at the language

He was ordered good dist; 30 grains of chloral at twi tone, and Sise of haust domest the first thing in the morning. No

etimulants.

May 12th.—He went to sleep immediately after the chieral, and slept for three hours, when he was awake by a noise in the eward, and after being awake for an hour the dose was repeated with the result of sending him to sleep mismediately. The house medicine has acted freely. Patient is this neuronal prove and rational; complains of no healts he, only a sense of faintness and weariness; pulse 88, moderately full, appetite very defective.

May 14th.—Is quite well; takes his food well; being thehund to be restless at night, he has had the chloral repeated every

night. Discharged.

Case II.—An engine-driver, aged 22, has been given to drink for ten frame. Had debrium tremens five mouths ago, ance which he has been drinking as bad as ever. Father says he has not been sober for three weeks. He drinks they expectally No family proclivity to drink.

Present attack began on May 8th 1870 with total long less of appetite, great westlessness, delusions of all corts occasionally

with violence

Was admitted on May 11th not having slept since the commencement of the attack; he was very quiet and tractable easily put to hed. Tongue thinly crated, slightly tremulous fittle tremor of his body. Pulse rather weak, ordered good dust. No stimulants.

10 PM.—Has been very quet but has not slept. Temp 30 8. F.; pulse 100.

Ordered chloral hydrate gr.xxx every hour until sleep comes on, and Ziss of house medicine early in the morning.

May 12th.—Chloral was continued every hour till 3 A.M. this morning without producing any sleep. He got more excited,

wanting to get out of bed, and slightly delirious.

Chloral was omitted, and bromide of potassium gr.xx every hour ordered. At 6 AM, not being asleep, gr 1 of acetate of morphia was given hypodermically, and the bromide of potassium ordered every three hours. He went to sleep at a quarter to nine this morning, and has been sleeping off and on all the morning. His bowels have not acted. Not having passed water since admission, a catheter was passed, and 22 oz. of dark-coloured urine drawn off. Ordered gr.v of calemel.

May 13th.—Bowels opened moderately after the calomel; slept well last night, without medicine. Temperature 984; pulse 76, rather small and thready. Appetite bad. Ordered—

Mag. sulph. 5j.
Tinct zingiber. Maxx.
Dec. aloes co. 5j.—Fiat haust, st. sumenda.

May 14th.—Pulse improved, appetite better; patient still in a very sullen humour. Bromide of potassium omitted, and some ammonia and bark ordered.

May 20th.—I) ischarged.

CASE III.—A gentleman, aged 32, engaged in literary pursuits, having been very much worried, took to drink six mouths ago, and, according to all accounts, has not been sober nor absolutely drunk for six months. His principal drink has been brandy and wine. His grandfather on the mother's side was a very great drinker, and his mother's brother is in a lunatice asylum through drink.

On May 13th, when admitted into the hospital, he was perfectly rational; said he thought it the best thing for him to come into a hospital; he was very unsteady in his walk, very flushed about the face. There was a good deal of tremor; tongue coated, tremulous; pulse full and strong. To have white of egg and just enough sherry to make it taste, every two hours. Puly, opii grass at bed-time, and puly, seidhtz in the morning.

May 15th.—Not having gone asleep, and getting more excited, he was given at 1 AM gr.1 of acetate of morphia hypodermi-

cally, and at 6 o'clock, gr. 3.

5 P.M.—Has not slept; is very excited. Bowels have not acted; has been sick after everything he has taken all day. Ordered—

Ol. terebinth, 33s. Mist. acaciæ 3j. Decchordei diss.

Fiat enema statim ad min.

Et

B. Pot, brounds 35

Sp with introduce,
Mist camph 59

Fact lands 622

Fast levest 6th quaque her's sumeuch

10 P.M.—Morph, acetas gr 1 hypotherms ally

May 15th, 1 Am -- Rep morph gr 1

Howels treely opened after enema, vounting not so seems. All last night was very delirous, tanying all sort of horrible things were going to happen to him. To have heaf to diversating with the eng; to have a little brands meteral of the above, but not more than Joy in the twenty-four hours—only for a tasta.

9 P.M. Rep. hypoderm. gr #

May 16th, 4 a.s.2. Rep. hyperform or 1 9 r.m.—Has not slept at all, was more excited than over last night. Pupils just a little smaller than natural is what profusely; takes his food well. I'ulse not so strong as formerly, but still very good.

5 P M.— • B. Chloral hydrat gr lx.
• Tinct aurantu Ag.
• Aq pure Aj — Nt.

17th.—Patient went into a light sleep too minutes after taking the chloral, and continued deeping waking up at intervals of a few minutes for nourishment til nodday to day, when he was very much better; not quite rational lie was them ordered.—

H Mag. sulph Ag
Timet zingdsern Maxx \*
" card co Max
Dec aloes co M.—Statim

18/A.—Perfectly rational; slept well last night. Howels open freely. Feels very hungry; branch stopped; mest ordered.

Has only a little pain over law.

Six.—Ries slept and taken his fixed well; pain quite press has been taking the bromude of putsasium, but no more chloral or morphia. Discharged.

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t Any of the furnish moths may be preceded by applications to Williams & Norgans, of Henrichia Street, Count Garden, W.C.; or Momes, Indian, of this significant, W.C.  $\phi$ 

# THE PRACTITIONER.

ABPTRMBER, 1870.

## Original Communications.

#### CONTRIBUTIONS TO OPRIBATMIC THERAPHITICS.

#### BY BURRET BENDEVELL CARTER PROPE

#### BLEPHARITIA

INFLAMMATION of the attribution at the margina of the exclude may appear in various degrees of severity, has been described. whiler various names, and movement various evil consequences: but, even in its maidout forms, it is always a soriew of much annoyance to the patient, and sufferince of mach embarranment to the presiditive of It often companies as a most of pityriania a more issuany descuantation of the opiderrais; and - the little scales, critating the delicate surface on which they rest, and inducing the fatient to report to frequent friction, lead to the furnation of small pustales which leave onen alcora These maintain and intensity the irritation in which they had their origin, and gradually pass into the ordinary form of the disease. In many cases, however, hisphatitis is primarily, as it always is eventually an effection of the excretiony district the schammar glands which open into the channels of energy nor of the cilia. The patient may present hims if with a group of shrob or four citie againtmated at their beaca by a crust and MO. EXVII.

behind this crust there will be a slight degree of redness and tumclaction of the skin of the cyclid. If the crust be removed at all roughly, the surface from which it falls will bleed, and the conditions beneath will be concealed. But if the crust be very carefully softened by warm water, and then gently removed, it will be seen that some of the oilis, instead of being closely surrounded by epidermis at their emergence, issue from the centre of little gaping ulcers or sinuses. Such cilia may often be removed by a very light touch, and always more easily than those from healthy foliales, and it will often be found that their bulbs are bluk instead of having preserved their patural whitishecolour The ulceration within the hair-follicle often extends also to the skin between additions follicles, and the whole of the surface that was covered by the crust is sore. There changes are on too small a scale, and affect parts that are themselves too minute, to be discoverable by the naked eye; but they may be very readily made out with a lens of moderate power. If the disease he neglected, it tends to spread by . continuity, by the mornistion of other follicles, by the irritating ducharges, and by reason of the rubbing practised by the patient. As more and more of the margin of the eyelid is involved the whole of the tissues between the skin and the tarsal cartilage become juffamed, swellen, and infiltrated with lymph When the lower hil is implicated, the swelling soon removes the lachrymal punctum from contact with the globe, and the tears no longer find their normal outlet. They collect within the sic of the communities obscure vision, and critate and inflame the empire trivel membrane. The discharges from the ulerated fill because with the returned to us and add to their arrite a lightach of itin school dust are also caught by the min hed flinds and are "arred to and too over the surface of the eveball. The inflammation excited by these causes soon becomes chronic and affects both the pulpebral and the ocular confunctiva, producing in these divisions of the membrane pathological changes which differ with the differences in their anatomical structure. At the superior conjunctival reflection the surface is often roughened by the development of the bodies known as granulations, and the friction of these produces Vascularization and inflammation of the surface of the cornea.

In the meanwhile the lamph efficient extend to the taxes are filages tends to central and to ease is its a new a permanent werenn of the lide. The folicles maked to destroyed by lang-continual alregation produce culy fields at l distorted tills excesse to project that after ther. The lacket mai sar and passages ports spate in the circums and their timeter result is an inflamed commercial a tacked and the state of a and lala barren of eyelashes, and math their relate ever red at 1 inflamed. The dispass is essentially a very chronic in and produced its mechal slowly, but at a rate which is event ally dependent upon the extent to which its early stages expose the eye to irritation. Thus the inhabitant of a mosky ligh raise. or of an atmosphere filled with necessary particles at any kind. will suffer more quality and more everely than a person in more favourable external conditions. Neglect of elevatiness, marrower, is very indisential in increasing the morbief. I've to cally, among the better classes of this country we salking me the more advantant stages and more grave effects that have been described, and the warst energy to I say of the totaleds as one on a which the crim are weak and reposition the tar as maintain a season. what turned and exedence a stake discharge the penatal hivemalia removed from contact with the globe and the control is unnaturally vascular hight will be somewhat impaired by the film of tears, and employment of the eyes especially by candlelight, soon moreases the irritation. The disease generalif commences in childhood, often in early childhood, and it has little or no tendency to apontaneous recovery.

At the verf commencement of the disorder it is not nocommon to see a great of dried discharge covering from ourfourth to one-ball of the length of the cilis that spring from the affected follocies, but at a later stage, the notion of the desirableness of cleanliness having usually been impressed on the patient or the parents. It is more common to find only a thin, hard, sernitransparent layer us if the tainil margon had been pointed with a line of collection. Through this layer the cultur project, and its remodular margins, which have contracted in drying, men to fasten themselves, as it by little claws to the turned skin below

The treatment of blephantis must be addressed first to the

cure of the follicular inflammation, and then to the removal of its effects. In the early stages of the malady a perfect result may almost invariably be attained; but even then its attainment will depend upon the careful observance of several minute precautions. For this purpose no trouble should be spared; because the imperfect arrest or protracted continuance of the morbid action will inevitably damage the cilia, even if it should fail to produce further and more serious changes.

The followlar ulceration is readily amenable to the influence of well-selected local applications; but from these the ulcerated surface shields itself with great randity by the crust formed by its draid discharges. A manifest seab that covers a con-plerable portion of the length of the cilia is not more effectual in this respect than the thin semitransparent film that has been described; and the first points requiring attention are that all exudation from the inflamed surface must be removed immediately before any local application is made, and that the removal must be effected with such gentleness that no . injury can be inflicted upon the parts below. The obvious means of fulfilling these indications would seem to be the employment of warm water with sufficient grutleness and perseverance; but it is found that the greasy element introduced into the discharge by the admixture with it of the secretion of the Meibomian follicles enables it to resist pure water to an extent that would landly be anticipated, and that the employment of a weak alkaline lotion is almost necessary. For this purpose Galezowski (who has studied and elaborated with great care and success the various details that promote the cure of conjunctival affections) recommends a solution of beurbonate of soda, containing five grams of the salt to an ounce of distilled water. If a lotion of double this strength be presented, the quantity required for each application may be poured out, and warmed for use by dilution with an equal bulk of hot water- A small, very fine, and soft piece of sponge, which may be conveniently tool to a handle, forms the best means of applying the lotion, and the crusts, when sufficiently softened and detached, may be removed by the finger-nail, When the surface is perfectly clean, and all residual viscidity has been removed from the tarsal margin and the cilis, complete drying should be effected by gentle process with a hir of clean, soft, absorbent rag, and what is properly the treatment of the disorder may then be said to communice

In the first place, all loose riba should be removed, because, while lying in the alcerated follows, they act as foreign bedoes and keep up irritation. Some writers have advised complete depilation; but thus is selden if ever necessary. It is near ally sufficient to take the ciba of the implicated region between the finger and thumb, and to apply to there such gentle tracking as will pull out them that are diseased, and leave the rest manifectal.

The next thing is the application of an astringual to the sent of the disease. . For use by the friends of the patient, cialments are to be preferred. The hest are the outrosest of red exide of mercury of the British Pharma opena, an aint ment of the same strength centaining yellow oxels of men ary prepared by precipitation from the perchloride by perash (Pagenstecher's centment, and the moturent of the suis bloride of mercury. Of these the first named is the west emergetic, and the last the militest, and the selection of one or the other should be governed by the amount of critation that may exist. If this should be considerable, or if the potenti be very sensitive, it will be liest to mulify the mortal condition by using the centment of the subchlorate at tret, and , by proceeding to the employment of the others when some improvement has been obtained. In most cases, however, the red unide contract may be used Trum the commencement and will auffice for the cure.

The application of the cintment must be carefully made, and iff a matter on which patients will always require instruction. The object is to make it enter the ulcerated follools, but it should not be suffered to go into theorye, and it might as well be applied to the legs as to the skin of the eyelist. It should be of sufficiently soft consistence, and it too hard, or in cold weather, should neutly be warned. For this purpose a slip of glass should be dipped into hot water, wiped, and instantly that as a spatula on which a small portion of cintment may be taken up. In this, as it softens, the point of a small came is bar

<sup>-</sup> A See Pagrantecher's original pager, Ophtheforenderous, ral is p 415

pencil\*may be rolled; and then the cintment, while yet soft, should be worked into the tarsal margin at the affected part. This little manipulation will be rendered much more easy, when the upper hid is affected, by making light pressure with a disengaged finger upon the upper margin of the tarsal cartilage, so as to tilt the lower margin forwards. If nicely managed, the preliminary washing will be very soothing and grateful, and the depilation and the application of the cintment will be painless; but if the manipulation be rough and awkward, and especially if the cintment he suffered to exter the conjunctival sac, there will certainly be lachrymation and smarting, and, in the case of children, usually unsteadiness or absolute resistance, by which the difficulties of the treatment will be greatly enhanced.

The thorough cleansing described, and the application of the mercurial outment, should at first be repeated daily; and at night the tarsal margins should be rather freely greased with spermaceti ointment, or with almond oil, along their whole length, so as to duminish the drying quality of the exudation, and to prevent adhesion during sleep. By this means, in nearly every case, a speedy improvement will be attained.

If, however, a week or a fortnight should pace away, and no great change for the better be apparent, the surgeon should consider the desirableness of applying nitrate of silver. For this purpose a stick of the diluted nitrate should be procured; made in the proportion of two parts of nitrate of potash to one of nitrate of silver, or even still weaker. It should be acraped or filed down to a fine point, and should be applied to the tarsal margin with a light sud careful hand. The ordinary cleaning must, of course, he first accomplished, and all superfluous fluid removed, but it is not desirable to dry the hills so carefully as to absorb the mosture remaining in the illerated follicles, since this would serve to convey the nitrate more completely to the deepest-affected parts. Nitrate of silver should be used only by the surgeon himself, and at intervals of from three to five days, the ordinary applications being made daily as before.

There is perhaps no valid objection to the early use of nitrate of silver for patients who are old enough to bear the smark without finehing; but for young children the application of painful remedies to the eye should as much as produce be avoided. They produce fear, which hindows the project image of the surgeon, and places difficulties in the way of the recovering inspection of progress. For these reasons they should never be employed unless the prescriber as quite sure that mild remains have been used carefully and effectually, and with persoversions for a sufficient length of time. It will sometimes happen that a blephantis reputed to be obstinate will begin to men has some as ever the surgeon takes the dealy cleaning and deputation and the application of this continent into his own has be, and secures the thorough accomplishment of what is desired.

When swelling of the margin of the lower lid has displaced the lackrymal punctum, so that the eye to always surered by a film of tears, the irritation thus produced and maintained is very prejudicial to recovery. It can be readily obviously by alitting up the cassaliculus; and the little operation should be performed with Weber's kinds. This consists of a very parrow blade, terminating in a fine short head or director, which passes readily through the punctum, and guides the cutting edge flong the capaliculus. It spares all the pain and complication incidental to the use of a greated director. The wound must then be daily eponed with a probe for two or three dars to overcome the tendency of its edges to reunits. It must be remembered that such an incision is the establishment of a rdefect; and it should not be made merely for the persons of saving time in treatment. Netwithstanding the lodgment of tears, the swelling will often subside, and the eyelid return to its normal contrar, when the follicular inflammation is count; and such a result should always be assed at before the hulle as taken in head. When, however, the lower lid is not memly swollen but actually everted, and the punctum removed to a considerable distance from the globy, then incision will certainly be required, and should be performed without delay. In either case great benefit will be obtained, when the patient is sufficiently steady, by injecting the lackeymal canals with a mild astringent lotion, by means of an Anels syrings. . Many of the instruments sold under this name in England are twoperfectly finished, and have notales that are out off alongtly, and would be liable to incerate the delimate laung of the

canaliculi. The nozzles should be carefully rounded and smoothed at the extremity, so that even in unpractised hands they may do no injury. A solution of sulphate of zinc is the lotion most generally applicable.

Even in recent cases, it will sometimes be a useful adjunct to treatment to paint the outer surfaces of the eyelids with tincture of iodine r and to do so will always promote the absorption of the swelling and induration that is often seen when the complaint is of old standing. If this induration should still prove obstinate, and particularly when it is limited to the margin of the lids, its removal may be promoted by occasional punctures with the point of a lancet, carried to a sufficient depth fairly to penetrate the thickened tirsue. The lancet blade should be kent outside of the tarsal cartilages.

When long-continued neglect, or injudicious treatment, or other adverse influences, have caused the development of the more serious consequences of blepharitis, the patience and perseverance of both patient and doctor will often be severely taxed. The presence of ulceration or vascularization of the cornea may - almost always be taken as an index of the presence of granulations on the palpebral conjunctiva, and the upper lid should be everted to look for them. Until they are cured, treatment of the cornea itself will be little better than useless; and wher they are cured the corneal mischief will subside, although often \*leaving some permanent opacity behind. Granulations requirethe long continued application of some active stimulant which stors short of being a caustic; and the best is in most cases a stick of diluted sulphate of copper. This, the lapis divinus of German writers, should contain equal parts of sulphate of copper, nitrate of potash, and alum, fused together, and run intea mould. It should be applied daily, or on-alternate days. Lawson Tait has recently much commended the employment of simple syrup, and I have found it useful to twich the granulations with laps divenue, to wipe off superfluous moisture, and then trapply a coating of syrup before the lid was allowed to return to its place. Under this plan the granulations will in time dwindle, and the state of the cornea improve; but it will he many weeks or even months before the limit of improvement is reached, and any premature abandonment of treatment is

almost certain to be followed by relater It usually thereens that the conjunctive of the lower hid will also be covered with granulations, although they will be much smaller and less distimet than those of the upper lid, and will only give a generally villous aspect to the aurior. To this condition the lapes derivate is consily applicable.

The nestances of oversion of the tareal margins, due to con-. traction external to the cartilages, are very rarely met with except in persons who cannot spare time by treatment and who are comparatively indifferent to personal appearance. little can be done for them beyond attendant to the state of the lachrymal passages. In the normal eye the Methomian secretary forms a barrier to the outside of tears over the margin of the lids, and when this harrier is removed the cheeks will be comstantly writed, and often rendered seen, if there be any chatration to the resease of team into the none. In such cases it is usually desirable not only to alit up the canaliculus but to excuse a slay of its superior wall with a same, and in this way to maintain an absolutely gaping thought, which abouted extend back as far as to the carned a Tiss up a shifting as of the red and everted edges will of course remain, but the confort of the patient will be greatly increased

In the milder cases, and in the carls stage, or bley harriss, when the disorder yields very readily to treatment it is well in. othe first instance to make clear the importance of obtaining a cure. If this is not done, patients are very aid to confort a malady that we me so trivial and to abandon treatment while the follocies are still in a condition readily to undergo relapse. If this he done, the relatives may occur again and again; and many of the field of the chronic form of the discuss will in course of time be produced.

#### POINTS IN THE TREATMENT OF LUPUS.

BY THIURY FOX, MD. LOND.

Phynonen to the Nim In particent, University College Hospital.

I AM by no means sure that many cases of lupus in their earlier stage are not rather the worse than the better for the stereotyped treatment which is generally employed with a view to their cure. On the one hand, in some instances no local measures whatever calculated to check the increase of the disease are adopted, and so the lupus progresses with great rapidity. whilst the practitioner trusts to the exhibition of internal remedies that he thinks exert a specific control over the progress of "the disease, but in truth only stay it in an indirect manner through the general improvement of health they induca. On the other hand, where local measures are employed, they sometimes, from the fact that they are used inopportunely, augment rather than diminish, and certainly favour the spread of the disease. It is this latter point to which I wish to direct persicular attention; but before discussing it in detail, I will say a few words upon the nature of lupus, and its relation to constitutional conditions; and these are necessary in order rightly to comprehend what is the proper treatment of the disease. Under the term lupus I mean to include erythematous lupus, the nonswedent and the exedent form. It is a favourite assertion of some modern writers (Neumann, Hebra, &c) that erythematous lupus originates in the sebaceous glands, that if is, d la Hebra, a secorrhota congestiva, a form of cuticular inflammation which, in the first instance, commences in the vicinity of sebaceous gianda, and thus differs from ordinary lupus. There is most probably confusion here made. We see in England plenty of comes of lupus that at first look like an erythems, that are then secomparied by new deposit (but not so much as that inhercles

are formed), which is subsequently absorbed, atrophy, and more or less contribution, finally resulting. The same change, only in a lesser degree, goes on in the skin as in those other varieties of lupus in which deposit is so marked as to form tubercles." In all these varieties the disease may involve, does involve, the selections glands, and there may be a complicating seterrhese, prior to the destruction of these glands, induced by the irrelation set up.

Now, I start with a positive denial of the prevalent belief that lupus is a strimous disease, and in making this seperting I am at one with the hest German dermatalements. No doubt input may occur in aircmont subjects; and then we have in the greater amount of ujocratich, in the discharge, and the five erusting, de, evidence of the modification of the lupus by the strumons tendency of the attacked, but lupus often covers in those who are not atranscess. It commute in the formation of new granulation tuesse of very definite hand an the corrust. which structly increases and infiltrates, a spreade to configuress parts. This new growth, which is the constant and eccupical condition, does not appear to be connected with any perpliarly constitutional condition, except it be a philipsical tembercy There is generally a lymphatic habit of lady debit's puller and the like in these affected. We know of no specific apternal medicine that will directly theek the growth of this ties to This. "new granulation tisms may be destroyed, and its spress pervented, by the new of certain caustics. This is the most important point in the local treatment. Afti now as to details on these several matters touching the general and local treatment of the disease. What I am anxious to do in to indicate the reason for The adoption of this or that particular line of treatment lupus, as in other skin discases we want to draw away our attention from the mem external ear marance and comentrate it upon the natura of the actual morted changes going on in the skin, and trace out the connection between the two, from within ontwards, and not from without inwards. In lupius we have the formation of new trasue, therefore increase of size, of blood supply, &c. This new trems processes certain characters if it vescular, therefore we have vescular, and therefore softish lumps, or tubercles. This deposit is destined from the first to permit, hence we have absorption, or ulceration, and cicatrization. Starting from such a standpoint as this, we at once notice in our practice the extent and character of the deposit—any peculiarities in the disease or departures from a typical condition, such as free ulceration or pur formation, &c., which indicate complicating are unistances

Graffit Rivibus -The for going remarks will have probaldy saggested to the reader that there is, in regard to the \* exhibition of internal remedies, one all-important question, which may be asked with every advantage at the outset of the treatment of every case of lupus-viz. Is there say complu ating constitutional condition, or, in other words, is the case one of uncomplicated lupus? Struma and syphilis are the two mest unisorant complicating conditions. As I have before observed, the hast modern observers affirm that lupus is not per se a strumous disease, a proposition the enunciation of which brought down upon my devoted head a good deal of banter-not many weeks since, from one who is, however, of more weight in his own opinion than that of his fellows, but a proposition not on "this account the less true. My rule is this: whenever I find a lupus which exhibits a greater tendency than usual to crust-in which the tendency to ulceration is out of proportion to the degree of timus shange, and in which pur formation is more free than one would be led to expect from the degree of inflammation-I carefully examine the patient for evidences of a scrofulous taint; and if I have any doubt, I rely much upon iodine internally, with iron and cod liver oil pashed very freely, not so much to cure the disease as to remove directly the mal influence of the stramous habit of bals. There is one remedy I have lately used that seems to me to be very efficacious. If is induced of iron encapsuled in gelatine 111 fer tisy, influid), and made by a French house. These palls may be obtained from Corbyn's house. One of these may be given four or five times a day with advantage. The polulus de Blancard are much relied upon by others; but I must confess that I have not had much experience with them, and it is soul they pass the intestinal canal without being absorbed. I do not think they act so well as those I have mentioned. If one of the pil fer tury, indure he put into the mouth, in a minute on two the gelatine will be so far dissolved

that the contents of the capsule will be set free. My joint 18, however, now to point out that strums 14 only a complicating element in lupus, and should be met as such.

I mentioned syphilis as a complicating condition. Now and then we meet with cases of lopus in strong and healthy subjects, which do well under the influence of mercurials administered internally This is a fact. In some cases we may be enabled to trace the consident evaluates of syphilitic infection, and the neutralization of the latter explains the cure of the lifeur. It is a point to attend to. more than this, I am inclined to think that some cases which are generally regarded as pon-excelent lupus attacking the nose, and in which the deposit is pretty uniform, and the tubercles small and fewish, and less vascular than usual, are it would seem, really cases of syphilis herediturily transmitted, rather than instances of true lupus. A very instructive case of the kind recently came under my cam at I'niversity College Hospital, and was seen by Dr Ansjatz (Vienna), Dr. Wieglewigth (Reston), and other dermatchigusts, and formed the applied of a good deal of discussion. A young woman, a lady'smaid, came with what appeared to be a lupus attorking the whole of the lower part of the mose. The mose was much enlarged, tender, dullish red in colour, and shory, and towards the left right side, at the entrance of the left mostril, was an dark adherent crist, revering over some ulceratum the nose, at its junction with the cheek, were some inlink, fawn or flesh coloured, hardish or firm, not very van dar tulerries. the size of millet-seeds, or somewhat larger. The upper lip was diseased also, being red, the kened, and swides, covered by minute scales. The postril was blocked up almost entirely, and the disease seemed clearly to have begun by easens. The patient was not strumous, she did not admit nor deny has my had applielss, of which there were no concomitants. I laid great stress on the commencement from our na, on the rather tree crusing in connection with only lew, and these minute, tubercles, on the hardness and unvascular character of the tubercles, and on the acathered tubers les about the chicks beyond the actual lupus itself. and the presence of a couple of tubercles of the same kind on the lower part of the forehead between the eyelman I believed that the tubercles were rather those of ayphilas them

lupus, and the origin from ozena pointed in that direction, as did the early and rather free ulcommon in connection with slight deposit. I thought the case syphilitic, but my view was contested; yet the patient got rapidly well under the influence of mercurials and iron and iodide of potassium, the most marked improvement first taking place in the state of the interior of the nose. This and other cases teach me this, to suspect a syphilitic disease rather than true lupus in those conditions simulating lupus in which the tubercles are firm, not cascular, and much scattered about and where crusting occurs when the deposit is slight, and cannot be accounted for by the presence of a strumous taint. So much for syphilis

In some metances I have observed that lupus subjects tule renlize rapidly, indeed I suspect that if any constitutional condition is specially linked with lupus in its milder forms, that it is the phthick alicrant rather than the strumbus, and this may account in some measure for the beneficial action of cod-liver oil in these cases. In young and pallid subjects it is well to be on the look-out for phthisis, and to use cod-liver oil freely where this may be suspected. In other instances lapus subjerts are said to be healthy, and it seems to me that these are cases in which we must rely upon local measures mainly. But before I mass to their consideration, let me say one or two words about amenic. Is it a specific for lupus? I have not had sufficient experience on this point. I have been disappointed with the action of arsenic, if only that one has had to wait months, and it may be a dozen and more, until one obtained beneficial results and I want my lupus patients to be well long is fore that time last clipsed. I venture to think that the attention to diet and hygiene, with change of air, and the like, which are accompaniments of the treatment by arsenic, often more truly effect the observed benefit than does the arsenic which is given. I have nothing at any rate to say in favour of arsenia, but everything laudatory of iron and cod-liver oil, and especially the induret of fron naticed before,

Now, I may be allowed to say a few words about the use of local remedies. I think we all need to remember that though the real radical or essential local treatment of a lupus is the proper application of constict, that such application may be exceedingly imappropriate, and that it is only advisable to have recourse

to at at a restain at the of the circum. If the re that Together who treat the clear me made pull country me by the and year application of nitrate of silver er other caustic. I feel mits they do much if frequently of nothing more, they came unfact mary scarring. I am sure we ought to recognize quord freatment three stages of lupus, that in which the congression is a marked feature - this is at an early date the fully developed stars or state, and the healing stope. I am perturiarly among to say that I believe the treatment of all cases of lupus especially of lupus egyldematodes in on early stage, where the congestion is marked, the patch tender and hot should be an essentially sorthing one. I have an idea that the access of mis, by its axyons it may be, tends to accelerate cell changes, and that where congestion is very active any stimulant treatment tends to mercase the amount of blood in the part and to accelerate the morbid tissue change and to mread the disease. I know that the latter is a fact lite explanation I do not much consider here For some years past blonce would dail lippen justiches segme tally those about the five when much comested has sail arreadile; and I know nothing letter this a valuence is to a with a little prusue arul and giverine applied neveral times a day may be necessary to touch the edge of the gatch if it shows aigus of extending by some caustic, this this she if the design continued. Whilst by local means one quests the lupus patch by general measures the health nay be improved, and when the lupus patch is loss irritable and inflamed we may have recourse to consists, but I have seen not unfrequently serious attacks of arythermaticus' lupus get perfectly well by the combined use of enternal tonique and the application externally of some mild naterizens in such a way in to organic exclusion of the external I am sure that a similar spien is passe successful than any other in the early stages of those skin after one in which congestion is a marked feature. I will mention scate general paorians occurring in the young and the adult as proving this name rout, the disease is generally most rapidly cared by alkalise haths and mild unquents and general tours substantly, and under much were by stemulating applications of all kinds, and more especially tar. Having got rul of the congestive element of a lupus when this is most than usually marked, them is the proper time for the use of caustics, of which there

are many. But I think that in some of the minor cases, where there is a disposition to improve, and the tubercles are not large. that the emplast, hydrargyri applied each night may suffice. But if there are distinct tubercles, and there is any spreading. we have no alternative but to cauterize. For severe ervihematous lupus I prefer equal parts of caustic potash and water, brushed freely over the diseased part, a poultice or a neutral unguent being applied subsequently. For preventing the spread of lupus, and destroying the tubercular form, I apply the acid nitrate of mercury, for severe and long-standing cases which much deposit I certainly give the preference to nitrate of zinc paste. It's thus made: - untrate of sinc 3iss, distilled water 3i. Alycerine of starch 31, wheat-flour 31, to make a paste one part in three.) For bad cases we may use one part in two. The patch is covered by a layer of the paste freshly made, and if much pain ensues a poultice is applied. The raw surface that results may be dressed with zinc continent, or a little liquor plumbi rubbed up with adeps. When the sore has dried up, or crusted over, if necessary the caustic may be reapplied. In those cases in which dark crusts form, and the lupus discharges, a very successful plan is to clear off the scabs with a poultice, and dress the surface with a weak automent of the pyroligneous oil of jumper 3j to 3j of land. If the sore spreads, or there is much thickening, the nitrate of silver stick should be freely applied d la Hebra. For the exedent form the are pleal and the nitrate of rine caustics I use by preference, but I am not so much concerned with this form of disease now fastly, let me add. that in the stage in which healing is taking place. I use two remedies with great size es the educane lotion before referred to, to all y heat and to live to the land conting ut mode with pyrohigherus oil of jumper, to in luce, by its stimulating and antiseptic projection, a to althy state of the grapulating surface. and in such a form and trength as not to writate; and I find. by carefully adjusting the use of the soothing and stimulating remedies according to circumstances that I get good results in my management of the cases. I have only tried in this paper to give expression to some two or three minor points in the treatment of lupus, attention to which has obtained for his unusually satisfactory results

# NOTES ON THE TREATMENT OF THE DIARRHORA OF PHTHISIS

#### BY R DOUGLAS POWELL M.D.

Ambigual Physicianics the Hogystel for Newscoupters, Brinington

It is now late in the day to seek for any new remedy bridgerhers, and it is not the object of the present paper to bring forward any although these may be many yet to be ancerthed by those sufficiently energetic to seek them out. The printing difficulties which beset us in the openment of distribute, and particularly of pathissical distribute, do not arise from any dearth of drups but in the selection of the most appropriate is incline, and the best times for administering them.

The writings of Dr. G Johnson have done much to popularize the rational treatment of diarrhola, was that of first seeking to remove the cause before attempting to stop the Bow from the intestines. And in cases of phthiais, where there is activally alcoration present in the intestines, this method of treatment is equally sound, though it must be more gently carried out. Though the object of the distribute of phthiais cannot be truly regarded as one of climinating any specific poison, yet the phenomena observed during the distribute, and the benefit effects which aften follow its sudden arrest, might even boar some such interpretation.

It may be frequently observed in cases of phthias that, on the supervention of distribute, the lung symptoms abute, and the physical signs become obscured in an automobing digree by the diminution of the secretion sounds, and an increase in the landness and dryness of the respiratory murnur. Whatever the explanation may be, and it does not seem hard to find, I am satisfied of the fact, and regard it as a most instructive one.

The constantly recurring factors of pulmonary destruction in chronic phthisis are local congestions, pneumonia, fatty degeneration, and liquefaction; and a knowledge of the existence of what may be called a sympathy between lung and intestinal secretion warns us emphatically not suddenly and obtrusively to interfere with a flux which may be only salutary, and the sudden arrest of which may lead to those local congestions we so much dread as the first links of the destructive chain, but rather to hold our remedies in reserve for a more fitting moment." It may be remarked, in passing, that the sympathy between lung and intestine above alluded to is not confined to cases of phthisis in which there is usually a similar morbid process going on in both places; it is very commonly observed in children in whom acute pulmonary catarrh, with abundant bronchial rales over the chest, and considerable dyspnæs, will subside on the occurrence of serous diarrhira; the sudden arrest of which by injudicious treatment will almost certainly result in the return of the more grave cheet symptoms. If I might date to say that a derivative effect is here witnessed, I should best convey my own idea as to the explanation of these phenomena.

While, however, it is injudicious to attempt to stop abraptly the diarrhose of phthisis, the gravity of the symptoms, the profound assemis and exhaustion it occasions if continued, must never be lost sight of; its treatment must be carefully entered upon at once, with the endeavour, by allaying or removing the irritation or error in gland secretion which has given rise to it, to arrest it safely and effects ally

On making a selection from the post more in examinations which I have made at the Brempton II path, of eighty-four cases in which a note to the paths of the condition of the intestine. I find fact the paths the general statement, that alteration of the intestine mage or less extensive as present in two thirds of all case of phthisis at some period of their course, and that this pathological condition is about equally common in all the varieties of phthisis whether the tubercular, the pneumonic, or the fibroid element predominates in the lung disease. Also that, as we might naturally expect, the more chronic the disease the greater the probability of alteration being present. I have also not very infrequently found extensive alteration of the intes-

times in one as in which charibies had exhering recoursed of any or had never been a promise of symptom if in tight most, et ales as frequently is mated with extensive of arresment of it as times as diarrhica and in many cases of philires one make a second the rule of sequence to be constituted with alaborated in the then distributed then completed on signi-The remain this appears obvious on post-mostic metalicin the motorio ensured of the intestine being found sectionally desinged and which repcompletely out through, by the ukstairms. The is intalliaction of the intestines is thus greatly interfered with, and were stipation if the first result, until the accumulation of faces and flatus produces critation of the mucces perulance, which (not the alceration per w) gives rule to the diarrhose. A sepost ourgative given to releave the construction in such cases may have the most disastrous results, producing chatmats directing. or even performing and fatal particulties. As one of the kind rather undeasily notice some few months ago: in which there was extensive chronic disease of the lungs but the patient had at no is read of his illness suffered from diarrhera in the contrary to complained much of constipation to relave this some properties pills and draught had been incantionally here him and being no effect had been repeated, the average mix of personative came on, the patient died and post mortem extensive whereten of the intestmes was found, one of the ulters situated high up to the intestunes having given way

The most uncontrollable form of diarrhous, attended with the most distressing dynamics symptoms, quars in cases where the ulcoration has its sent mainly in the large intestine and covern. In those cases also in which the liver is fattly degenerated the discribes is very bluffrate.

Some tolerably plain rules for treatment seems to follow from the above considerations, the broadest of which would however, involve the entere management of the drup para, who have constantly associated with phthiam, and which we trequently enter nates in an attack of diarrhese. The intestinal alcors may, we know, long rem in domaint and inactive, and our preventive treatment is clearly to endeavour to keep them so by warding off all causes of irritation. The great importance of never giving strong

I For a marked instance of this rate fathe | Transpot six to 17 44

purgatives need not therefore be again insisted upon. Constipation must be remedied in good time by attention to diet and the administration of gentle lavatives, as castor-oil (when it can be taken), or a saline or senna confection, taken early in the morning, at which time these medicines are particularly efficacious in much smaller doses than at other times; or a pill of aloes 1 to 1½ grains, if ecacuanha ½ grain, with gentian, taken immediately before dinner, is sometimes more useful. In some cases I have found extract of belladonna, with ipecacuanha and taraxacum, taken early in the morning, very useful in regulating the bowels; in other cases of no use at all.

The condition of the tongue is a very ready and excellent guide in the treatment of disrrhoes. When costed, as it most · commonly is at first. I usually begin with 5 grains of each of grey powder and Dover's powder at night, sometimes followed by a seidlitz powder next morning, and next day prescribe a mixture containing bismuth (grains x) and soda. I have tried caster-oil as a preliminary in some of these cases with a good result when the diarrhoen has been preceded by constipation, but with the gastric irritation and disordered hepatic secretions usually present it is much less efficacious than the grey powder; its nauscous taste, intolerable to most of these patients, has also hitherto prevented me from prescribing it except in special cases. The tasteless or "palatable" variety may be less objectionable. Our . object in most cases is, however, not to purge but to modify the purgetive action already going on. As the tongue cleans, an astrongent mixture, as harmstoxylum, may, if necessary, be used as a vehicle for the bismuth, but the diagrhous frequently It may be advisable to repeat the powder Silvinia Without after an interval of color

Very commonly, after the tongue has cleaned and become almost or quite natural, relaxation of the bowels continues, with flatulence and abdominal pains. Small disses of quinino with chloric other and optim on a fire of great value in the transition stage. This failing, conclions and sulphure acid, with or without optim, or a mixture of harmatoxylum and lime-water, with timeture of cinchons, I have found most useful. Some cases resist our best endeavours in the way of treatment; the tongue remains foul and the diarrhose persists: the best plan seems to

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be in such cases to persevere with the bismuth and ods, and give the compound powder at night, or the had and queen it night and morning

Absolute rest and properly regulated diet are of course of the greatest importance in every form of distribute. The diet must be regulated on well-known principles, which at it is no sacrate repeat here, the substitution of branch for less or wing and milk-cooog for ton or coffee, is untally attended with advertisage Iceland moss with milk or water makes an excellent to verage at night for cases of phthisical distributes. In some cases of advanced phthisis it is necessary to check the distribute at once if possible, and the mist create at vatering copie of the hospital Pharmacoperian is the most efficacions for this purpose.

In those cases in which there is a smooth glared tore no with a disposition to the formation of aphths, I have found bismuth with harmatoxylum and lime-water the best mixture, opinin-being added if necessary. It is a great mixtake to suppose that the presence of aphths is a case of phthicis is of fatal angery, they may disappear and the patient survive for mouths but they show a very low eith of vitality, usually after ied with much intestinal disease

A common form of diarrhers is for the pat, at to have a soil den desire to pass a loose stool inductiately after each me at or after taking any warm fluid. Bismuth is particularly as ful in such cases, or a mixture of hydrochloric scid, chloric ether, tincture of opinm (Minj to v), in a latter before meals

In that most that class of cases, in which the disease prigripully affects that large intestune, I have observed the grassest relief from simple and spins measures at night, with lead and opaum, or himseth and Dover's powder, during the day. I have not noticed much good to follow the employment of sulphate of copper, which is usually prescribed in such cases.

Innumerable drugs have been, varieted as the hest semectors for diarrhors, and in some cases at is necessary to ringethe changes on a large number of them. In the above imperfect sketch I have, however, only referred to a few which a species of almost unconscious selection has led use to pick out from the long list. There are many others at least equally efficacious but these above mentioned seem to me to have done their work

well in those cases in which one could hope for good results, and in other cases to have afforded the most relief and comfort.

The choice of particular remedies in the treatment of a symptom like diarrhea, depending on such different causes, is necessarily of secondary importance to the adoption of definite principles on which to administer them. A timely suspension of tonics and cod-liver oil, with a modification of diet, will, without any other treatment, often prevent or arrest an attack of diarrhea.

## HYDRATE OF CHLORAL IN HOOPING-COUGH.

# BY WALTER RECORDS, Physician's Assalant to University College Hazatel.

[Ar the present time, when it is especially desirable that evidence tending to throw light on the action of chloral should be put before the profession in as accurate a form as penaltic, we have decided to insert the enclosed notes, without any alteration of their form, because they represent the results of an imprepals editrial of the remedy on a parity large scale in the out patient. department of an important London Hospital —En Pager;

CARR ! -- H P -- , aged 5 years , male

Moreh 8th - Paroxysmal cough to rain inth, every tour in the day, worse at night, vomits after cough, he hopping

B. Chloral hydrat gr x Aq. pure 3ss. t.d.s.

March 11th.—Cough much better; del not crugh at all last night; hardly-coughed at all yesterday; no vometing, not drowny when he wakes by the morning, nor during the day, takes his food wall; herbits regular.

March 18th .-- Only hacking pough. Omit chloral.

March 25th .- Fits of coughing every hour in the day, worse at night, with audisipal counting. Hep chloral

May 10th - Has had no medicine since April 19th, when he was quite well, and continued so till three days ago when he cought a fresh cold. He now has a cough country on in paranysms every ten minutes in the day, and offers the hest part of the night, with frequent vorsiting. Rep chloral Patient never came again.

Cast II.-G. M-, aged 21 years; female.

Feb. 8th.—Paroxysmal cough; worse at night; every hour in the day; with wheezing and expectoration; vomiting after cough.

R. Chloral hydrat gr. v.

Aq. purse 3j. bis die.

Feb. 15th.—Still has a bad cough; less frequent and severe at night; sleeps a great deal better; coughs three or four times in the night; every two hours in the day; no vomiting.

March 15th.—Has been in the country for the last three weeks; cough much better while taking the medicine; but has not had any for a fortnight; since that time she has caught a fresh cold. Coughs now every hour in the day; worse at night; very violent, with vomiting

B. Chloral, hydrat, gr. v. Aq. pure 3j. t.d. s.

March 18th.—Cough as frequent and severe; vomiting much less frequent; diarrhora for three days. Rep. Chloral, gr. x. t. d, a.; Mist. cateohu 3ij. every three hours.

April 8th.—Medicine made the child so sleepy that she has only had it every night for the last fortnight; hardly coughs at all in the day; twice when she first goes to bed, and then not at all; does not vomit.

April 12th,-Quite well.

CASE III .- S P-, aged 3 years; male.

, Jar. 19th, 1870. — Hooping-cough; worse at night.

B. Chloral bydrat. gr x.
Aq pure 584 omni nocto. -

Jan. 25th - Much better, coughs once in the night; oftener in the day, much less severe; sleeps well

Feb. 11th - Better this last day or two; when the weather was - colder it came on again, but nothing nearly to bad as on Jan. 19th. N.B. -- Has had no medicine for a week. Rep. chloral.

March 4th.-No hoop; only slight hacking cough.

CASE IV.-J. P--, aged 18 months; male.

Jan. 19th.—Hooping-cough for a week; much worse at night; almost hourly. B. Chloral hydrat, gr. v.

Aq. purse il. omni nocte.

Jen. 25th.—No bester; coughs as often, but hooping less; still at pight hously.

Feb. 1st .- Just the same.

B. Tinct. Lobelia inflate gr. v. Aq. Ji. omni hora.

Feb. 4th.—Better since last medicins.

Feb 11th.—Cough more frequent and severe; werse again at night; hooping returned.

Feb. 15th.—Cough better.

March 4th.—Cough more frequent and severe these hat two days—five or six times a day; worse at might; no vomiting as there was formerly; shoops very slightly.

Morel 8th -- Coughs three times a day; not at all in the night; no vomiting. .

Morth 15th.—Cough about the same; very severe, hating five minutes; not altered much for fourteen days.

> B. Chlorel hydred gr. v. Aq. pure 31. d.d.s.

March 18th.—Much butter; only about twice a day; no hosp; aloops well; cough less severs.

March 22nd. - Coughe about twice a day; not decousy

April 1st.—Coughs three or hear times a day, very violent; "hoops sometimes, but generally more of a hacking cough; caught a fresh sold, not drowsy. Never seen since.

CASE V -- C I .---, aged 16 months, male.

Feb 26th, 1870—Hooping-cough all the winter, more frequent than every hour in the day, about the same at night, keeping him awake; vomits about once a day after cough after food.

3. Chloral, hydrat pr viii

Aq. pure 30 t d s.

March 1st.—Cough better after first dose; passed a good night; cough not many than two or three times in the day, not at all at night; very drowsy. Rep shloral once a day

Murch 8th.-Nothing but a short backing cough, howels confined.

CASE VI - A. I ...., aged 6 months; female

March 8th — Paroxyamal cough, three or four times daily, with vomiting and blueness of face, worse at night, stopping her sleep.

B. Chloral hydrat gr v

Aq. pure 31. t. d s.

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March 18th.—Cough about the same; better at night; sleeps well.

B. Chloral, hydrat, gr. x.

An pura 31. t.d. s.

March 25th.—Coughs once a day; no vomiting; not hooping; not drow-y.

April 1st.—Haplly coughed at all since March 29th; very drowsy; pupils natural.

CASE VII.-R R--, aged 4 years; male.

Fib. 25th, 1870 — Cough for a fortnight, hooping for a week, every half hour in the day, about the same at night, keeping him awake; rarely vomits; expectorates a good deal; bronchitic rales all over the chest; looks very iil.

R. Chloral, hydratis gr. x. Aq pure 3j. t. d. s.

March 1st.—Hosping-cough three or four times a day; seems too low to cough; sleeps very heavily; drowsy all day.

B. Chloral, hydrat, gr. v. Aq. pure 3j. bis die. B. Am. carb, gr. iij. Sp. chloreform. M.x. Aq. pure 5es. t. d. s.

March 4th - Cough more frequent, but not so often as when he first came; sleeps well; not drowsy.

March 11th —Cough every hour; worse at night; looks very heavy; sonorous and large and small bubbling rhonchi all over the chest, no reduces. Rep chloral; Rep. Mist 4tis hours.

March 15th Coagh about the same as before; looks very beavy, does not take his food so well; cough better at night.

Rep chloral R Am carb gr i

· Am carb gr j - Sp chlotoform Il nj - Aq pur c J , "omni hora"

March 1976. Cough decidedly better, but child very low and feverally. Distribute his come on of a very watery character motions every hour. Ome former medicines

<sup>&</sup>lt;sup>2</sup> Distinct rash, like mussles, over head and face and arms and legs; slight choryze .

B. Tinet aconita m j.
Tinet, beliadonne m j
Aq. pura ji. omni herà.

B Mist catechu aj every three hours

March 18th.—Bowels not opened at all yesterday, but last night about every hour, very watery. Rash is to-day fading from his face, but his trunk is covered with "it. Since yesterday he has had an almost incessant dry hacking cough," he was delirious last night.

Morch 19th.—Diarrhon still continued: died 2.45 A.E. this mornish.

Case VIII. - F. II ..... Senale, sued 5 years.

Due, 3rd, 1869.—Hooping-cough for five weeks; very frequent.

B. Tinet. Lobelus inflates # 2.

Aq. pure 12. count hors.

Das 14th.—No better: in fact worse.

\* Dor. 17th.—Cough no better, every hour, very plaint, with remiting; rather wome at nights; sleeps between parenymes.

H Chloral hydrata gr v Aq pura H bus das.

Ise 18th - Cough rather less frequent and severe , slept better than usual

The, 19th - Coupled four times last night and only ones the morning (9 a.M.), very slight, slept well; not drawer ...

Dec. 21st — Coughed about twice in the night and about five times in the day, very slight, no romiting, takes her find well, is not drowsy.

Inc. 24/A. Cough does not wake her, alight in the day.

Jan. 7th, 1870.—Cough altogether much loss, but rather worse the last three days, when she has left off the medicine she has not slept so well. Rep Mist

Jan 14th - Nothing but a slight backing cough eccasionally

Case IX A Sem temple, aged 2 years and 2 months

Wh 15th, 1870 - Hooping cough for a week an options in the day about a frequent at right no versity shape fairly B. Chlord hydrat army

An paire of the die

Fib 18th -- Cough about the same, less overs sleeps better.

March 18th -- Cough free

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CASE X .- G. S .- male, aged 9 years.

Feb. 15th, 1870.—Hooping-cough for a week; every hour in the day; about the same at night; no vomiting; sleeps fairly.

B. Chloral hydrat, gr. v. Aq. pura 5j bis die.

Fob. 18th.—Cough less frequent and severe. Rep. Chloral, gr. x.

March 18th.-Cough gone.

CASE XI.-E. S.-, female, aged 5 years, .

Feb. 15th.—Hosping-cough for a week; every half-hour in the day; every quarter of an hour at night; very severe, with vomiting.

B. Chloral, hydratis gr. v. Aq. pura 7j. bis die,

Feb. 18th.—Cough more frequent and severe. Add Chloral, hydrat gr. v.

Feb. 25th. Cough about the same.

B. Chloral hydrat gr. vr Aq. pure 3j. 4tis horis.

March 18th .- Hooping-cough gone.

CASE XIL-C. B., male, aged 3 years.

Feb. 184h.—Cough, worse at night; sometimes with vemiting, and blueness of face; no hooping; sleeps well.

B. Ol. Morrhuse, Vin. ferri, kā 5ss. t. d. s.

Feb. 25th.—Cough worse, no vomiting, nor hooping; no dulness or rales in the chest; cough keeps him awake.

B. Chloral, hydrat gr v.

Aq parae 5j. 4 times a day...

March 4th.—Very little cough in daytime; none at night,

CARE XIII.- E. R ----, female, aged 81 years.

Feb 25th.—Hooping-cough every hour; worse at night; with vomiting. B. Chloral hydrat. gr. iij.

An pure 51. 4 times a day.

March 4th.—Cough about the same in the day; worse at night; vomits very frequently.

B. Chloral, hydratis gr v. Aq purs 31. 4 times a day. CASE XIV.-C. R-, male, aged 8 months.

March 15th, 1870.—Convulsions once a day for ten days; cough for a month, every half-hour in the day, not so often at night; no vomiting; no hoop; howels confined.

H. Chloral, hydrak, gr iij., Syrup M.v. Aq pune 5; t.d.s.

March 18th.—Has had no more fits; coughs every half-hour in the day; pitemer at night; no vomiting; has just had a decided hoop; bounds confined.

> Adde hausta Chloral, hydrat, gr ii. B Pulv., rhoi e. sodi, gr. z. alterni neote.

March 25th.—Hoops more Coughs every half-hour in the day; not so often at night; no vomiting; last two days has been drowny.

March 20th.—Fits of coughing, once last night and four times yesterday; no vomiting; not more drowny than believ; taken food well; howels regular.

April 5th -Cough rather worse again, with happing

April 12th -- Cough about the same four or five tunes a day; not quite so often at might, does not seem to drowny.

Aprel 26th .- Cough less frequent, hoops strongly

May 3rd -Coughs about three times a day about the same at night, vomits about once a day after rough

May 10th.—Cough about the same, just as severe, stall hoops.

He Tinck Lobelian inflates M.v.

As pures 2 communication.

May 13th.—Has been very sick after last medicine; cough about the same in frequency, not so violent as before; heeps very distinctly, scarrely any sleep

B Chloral bydeat gr v Aq purm yet d. s.

May 17th - Coughs three or four times a day, not so violent, less hooping; sleeps much better.

May 20th .- Cough aboost gone.

CASE XV .- (). D--, male, aged 6 nouths

Dec. 17th, 1869 - Hooping cough every half-hour in the night; eight times in the day.

R. Chloral, hydrat. gr. iij. Aq. puræ 5j. bis die.

Dec. 18th - Cough just the same.

Des. 19th.—Slept much better last night; coughed only eight times; alight wheezing in the chest.

Dec. 21st - Cough less frequent and less severe; sleeps well; does not vomit; is not drowsy.

Dec. 24th .- Cough much better; less frequent and severe.

Dec. 28th.—Coughed about twelve times yesterday; severer than before, with vomiting; sleeps well.

R. Chloral, hydrat, gr. v. Aq. pura il. t. d s.

Dec. 31 - Has been vomiting after medicine for the last three or four days.

B. Chloral, hydrat gr. v. Syrap simplicis 5j. t. d. s.

Patient not seen wime.

Before I begin to discuss the value of the hydrate of chloral in treating cases of hooping-cough, as judged of from these cases, I think it as well to mention that all those cases were taken from out-patients, the regularity of whose attendance and the securacy of whose statements it is very difficult-to ensure. I regret very much that Cases I., IV., XIII., and XV. should be incomplete, though I think one may not unfairly consider that those patients would have appeared again had they not got better, especially as three of them—namely, I., IV., and XV.—had already been one greatly been into by treatment, but had caught a first cold, and the XIII was under ty atment too hort a time to be object to cold to my conclusion as to the value of the remedy.

Out of the internerse of the was one doubt the VII. This child, when first soen, wa were low, with severe hooping cou, h, complicated with bion hits, and it could not be expected but that oblor d alone would do mything but harm in such a close, however, it is lieved the cough considerably, and, with carbonate of authoria and spirits of chloroform, the child might have improved had not measles and finally diarrhora ushered in a fatal issue.

Of the remaining tourteen, there is only one case in which

chlord does not seem to have done any good and that is Case VIII, mentioned above. This haves thate is a wall have all been more or less benefited by the treatment many of them very rapidly, in others the relief is less marked.

I may add that I have had at least three office cases who had been getting better under chloral in about a month's treatment, and that they have not since about therefore I have no notes of their cases. It is an interesting fact that Case XIV, is fere chloral was commenced, had been having convulsions every day for ten days, and that she never had any after the treatment had commenced. The convilsions in this case do not seem to be due to the severity of the lough, as the convulsions were stopped directly, whereas the cough was not nitered at all for eleven days.

I hope that the publication of these cases may induce others to try a remody which I am sure as as good, if not better, than any which have yet been used.

[We think it necessary to add the caution that the repeter seems hardly to give sufficient credit to the natural tendency of a hooping-cough to subside after a certain direction. - En Fract [

### ON THE USES OF WINES IN HEALTH AND DISEASE.

#### BY THE EDITOR AND STAFF.

#### PART II. ON WINES IN DISEASE.

# Section I. Wines in Acute Diseases.

#### (Continued from p. 96.)

- 2. We come now to the subject of wine-treatment in the non-febrile scute affections. In this group we include (1) the occurrence, from any cause, of hamorrhage to such an extent as to constitute of itself a rapid danger to life; (2) the acuta neuroses; (3) the condition of shock-collapse, whether from extense emotion, from violence, or from severe surgical pre-ceedings.
  - (1.) Before we discuss the relations of wine to individual varieties of he-morrhage, let us try to lay down certain broad principles as to the indications and contra-indications of alcoholic liquids generally, in cases of dangerous bleeding. Now there are two objects with which we may give alcohol in dangerous hæmorrhage-either we may desire to stimulate a heart which is in danger of stopping from syncope induced by excessive an emission of the nervous centres, for we may hope to produce contraction of the relaxed peripheral vessels, and thus directly assist the efforts of nature to arrest the bleeding. And there are likewise two corresponding dangers in the use of wine; for on the one hand we may over-irritate the heart and cause such an increase of the force and rapidity of the circulation ss may increase or renew a bleeding which tended to spontaneous arrest, or on the other we may overshoot the intended effect upon the peripheral vessels, and induce paralytic dilatation instead of contraction of the latter. To take first the case

of threatened syncope, it may be at once admitted that a firm in amenut of severity of this symptom forms a positive indication for alcohol which over-rules every theoretic objects a fee sum the danger is not merely that of suddenly fatel boart resquere, but also of a more gradual and more deadly arrest of the cardiac pulsations by the formation of coagain within the pulmonary artery- a peril which towler its maximum in subjects whose blood, from any came, is hyper historian Putting aside the case of great syncolal tendency, however, it may be said that on the whole the balance is heavily against the use of akobolic stimulation in scute homography generally And further, it may be laid down as a general principle that the danger from exciting too violent cardiac action is breatest in cases where the hammerhape either comes from organs. like the lungs-which are anatomically near to the pulsating restra or from a large artery in any part of the body, especially if there he reason to think that the vessel is discussed. There remains, however, a not inconsiderable class of cases in which the tendency to harmer hage is mainly due to, or its dangerous continuance is mainly kept up by, a relaxed and atopic condition of the smaller artenes and the capillaries, a condition which is perhaps most frequent and most prominent in the menorrhams discharges of women of lax filter and in the intestinal harmorrhages of typhoal paterots of a similar constitutional tym.

In considering the special uses of wines in acute hemovrhage, we must keep in mind the disfluction between (a) effects intended to be preduced on the heart, and (b) effects intended to be exected on the peripheral vessels

(a) In regard to the heart, there are two kinds of indications which may decide us in the first instance to give elocited, and then to select certain wines as the appropriate form

In the first kind there is no large a loss of blood either absolutely or relatively to what the patient can afford to loss, that the nervous centres are dismost of blood and force to a degree that immediately threstens life. Here, though wines may be useful, it is chiefly on account of their should, and only the more potent kinds, in large dose can avail to meet the danger. We need hardly mention the case of encinous post-

partuin higmorrhage, which is so familiar; there is scarcely a practitioner who has not once or twice in his life seen, with amazement, women of temperate habits swallow as much as half-a pint or a pint of brandy or a whole bottle-of-port under such outcurstaires, without the least intoxication, and with the sole result of a resurrection from almost absolute death. It is difficult to explain these remarkable effects on any other theory than that of an enormously rapid oxidation of the algohol, and consequent development of nervous and muscular force available for the despirate needs of the organism

A second variety of quasi-syncopal cases is, we believe, essentially different in its indications, as it certainly is in many outward features. Everyone has seen and recognized the abovementioned cases of extreme and sudden anaemiation, with dead greyness of the face, funt indigo colouration of the lips, restless inclination of the limbs, and slow flickering pulse collapsing at the lightest finger-touch. There are fewer, perhaps, who have adequately recognized another group of homorrhagic cases, in which the heart is also deeply involved, but in another manner. In these patients, of whom much the greater number are women, both pulse and countenance might readily deceive a careless observer as to the source of muchief, for the complexion is not steadily pale, but changes from red to white, or even, in some cases, scarcely suggests the idea of pallor at all. The peculiarity " of the case is, however, best marked by the state of the pulse, which is very rapid, and apparently still of considerable volume It has occurred to ourselves to hear such a pulse described as \* bounding, "but street attention even without the use of the mples me and will obto t that the leasts are more or less unrhythmu il, and that the aftery is easily compressible. the tendency of these cases, we renture to believe, is very different from that of the fast-mentioned kind; and the danger is not so much of positive arrest of the heart's action, as of serious occurrences on the side of the nervous system of the generally diffused exhaustion of the nervous centres which is industed, in the more ordinary cases of acute hæmorrhage, by simultaneous disturbance of consciousness (without mensitulity), and a tendency to general "jactitation" (slight clouse convulsions), there is here a tendency to convulsions of

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an epileptoid character sometimes so like true et l'et er as to ha undustinguishable from it. Before we di euse the i it these cases, which is a doubtful matter we will tay, dith more confidence, what is their approximate treatment. for wise this point there are considerable arounds for firm it a district ordinan. We believe that any large dreast mire hely true male in the more concentrated forms, are likely to be presinting of nothing but muchief. Unlike the case of true cirleren. where a stiff glass of spirit and water (though a most unocivisable remedy) has nevertheless indubitable newer to step (4 modify an impenduly fit, these semi-hysterical cases are servinally complicated by narcolic melysation, and in every way made worse, by the adoption of any such treatment. It is quite others wise, however, with the effect of such a strandart se a gians of light champarne; the reviving effect of this upon the persons system at once exerts a remarkable stendying industry on the circulation, eximing and at the mass time fortifying the heart a action. It must be understood that we do not recommend this treatment for hysterical states, with rapid and progular rules. . which are not dependent on homographes, the cases are ementally different. What is the real pathological mount, then, of the cases we have just been considering? We can make a more than a strong guess, and it is thus that the estients while we have now described are for some reasons... I rotably of integral constitution—more liable than others to break-down of the functions of the medulic chicagata, and that the physicians observed are in fact the result of the influence of homograps upon the vegan and vaso-toutorral crattes which the modella contains, the rest of the nervous centres researcing comparatively unaffected. It is but a speculation, certainly, but at present we can suggest no other explanate n'of the facts, and un the other hand, the effect of a slight but rapidly acting stimulant tike champeone upon the vagus and vaso-motor control might will be expected to exercise the calmative and regulating inflavious on the circulation which it appears actually to produce, and at the same time to avert the tendency to evilopted convuler ti

(3) In what regards the possibility of producing a brush al increase of tone in the peripheral vessels, by means of the use of wins, and so helping the natural arrest of passive harm rinage,

we are able to say but little in the way of exact indications. is doubtful, even, whether the meculiar ingredients of wine offer any additional advantage, in this respect, over merely alcoholic The most remarkable instances of this kind are shown in the occasional effect of stimulants in checking menorrhagia which is not dependent on positive organic disease, but rather on want of tone of the uterine vessels, and it is well to note a broad and decided distinction between the proper method of administering stimulants in these cases, and that which obtains in the case. which might at first sight seem analogous, of post-partum hæmor-The principal machinery of arresting bleeding in the latter cash is contraction of the uterine walls, and very large quantities of alcohol may be useful, and even absolutely percentary, for this purpose. It is otherwise with the passive ha morrhage of the non impregnated uterus; here we apply the stimulus rather to the vessels themselves, and it behaves us to he careful that we do not overshoot the mark, and produce narrotic dilutation, instead of tonic contraction, of the arterioles and capillaries; nor is it common to find that large doses are of any advantage—on the contrary, they usually do harm. In such cases the remedy should be used in a careful and tentative manner, and the sphygmograph might be advantageously cmployed to test its effects upon arterial tone. If the signs of increased tension coincide with diminution of the hamorrhagic tendency we have the happiest evidence that the alcohol is It is advisable, in such cases, to employ the more motent wines in small doses (half an ounce), five or six times ada

of alcohol, and in a good many cases while is preferable to any other form. Of these the most conspicuous example is unquestionably afforded by were infantile convulsions. It is needless to say that in the neglecty of such affections some some of peripheral initiation forms an important factor in the malady, and that the removal of this, when possible, above all things demands our attention. Sometimes, indeed, the mere removal of the irritation at once subdues the convulsions; this is most frequently seen where gastric or intestinal irritation is prisent. But we must remember two things: first, that

convulsion does not follow peripheral arritations with a these are very severe, except in subjects whose increase year in in a state of morlad arritable debility, and account that the continuance of convulsion may produce irrepeasite machine before we can thoroughly remove the peripheral irritation. In the convulsions of dental irritation, for instance, we are now aware that such local remedies as gum-lantish are a ldom of any avail, the roal source of mischief bring the compressi h of the trigeminal nerve-fibres by the tight packing of the growing teeth in the jaw. "Under these circumstances out true resource is in brain-stimulation; and incomparably the most effective stimulant for the purpose is a tolerably potent wine which is also rich in volatile ethera. No medicine can effect half as much good as port or sherry of goval age and keeping, the latter is the more accomble, and our own expenses a lends us to rely apost it with unphrit considerer. For infants under one year, half teaspoonful doses should be prescribed every half hour till the symptoms begin to decline, and it is soliken indeed that this result is not produced in a short time if the treatment be steadily pushed. "Hill more necessary in this kind." of stimulation, when from improper feeding the infant has been practically stawed, and the stritability of the nervous systems thereby indefinitely heightened.

Another case of acute permiss in which the value of the potent and also highly etherised wines can hardly be oversaidd. is the acute form of choren which threating life and which in so many instances actually desseprive fatal. Here there is very often a interance for large drose which is extraordinary, and so long as we keep below the lone of narrottem, and minumeter the stimulant with regularity and watchfulness, there is no need for timidity as to quantity, the danger is preming, and a very large total daily allowance may be absolutely necessary I'mquestionably, however, a visitant discrimination must be made between different patients for whereas the naturally for his and amemic patients, especially when the attach had been precipitated by severe emotional shock, almost unreseally require the free use of wine, there is a smaller group in which constitutional and pervous debility has a much emailer and some functional irritation a much larger share, and these are

often more amenable to the influence of bromide of potassium than to that of wine. The occasionally severe chorea of pregnancy is an example of this class, and also the acute chorea sometimes produced by excessive masturbation.

As regards tetanus, the question of alcohol treatment may be said to be in a transitional state. The free use of alcoholic atimulation might have been fairly said, ten years ago, to offer by far- the best chance to the patient, and in fact many recoveries took place under this treatment. Certainly it was far better than the unlimited use of opium, or of chloroform, which were much the commonest methods. At the present moment, however, several new remedies are putting forward high claums to confidence in totanus: of these Calabar bean, nicotine, and carara are supported by a mass of important testimony, and a cortain amount of evidence exists in favour of chloral. I'ersonally, we are inclined to believe most strongly in mootine, and next to this in Calabar bean, and at the present moment we should certainly try one or other of these, in preference to alcoholic stimulants.

The case of delirium tremens may be mentioned here only to repeat the emphatic protest which we have always made against the employment of alcohol at all, except in more instances of thoroughly broken-down old drinkers. We are not at all stre that even this qualification will not soon be rendered altographer unnecessary

Very scatte neuralgia may sometimes appear to demand the use of alcohol, and the power of alcoholic atimulants, especially of good theory, to relieve such pain is an unquestionable fact. But there are the gravest moral objections to such an employment of al ohol, and in fact the only case in which we should be inclined to recommend its users that of angina pectars the atening life. Even here sulphuric ether or nitrite of amyl are far better remodes. It wines are used, they should be of the highly ethered kinds?

To conclude what we had to say on the use of wines in acute neuroses, let us must for a moment on the distinction between their case and that of the chronic neuroses. Alcohol, whether as wine or in any other form, is employed in the former case to save life, or for some other grave emergency. In chronic nervous

diseases this excuse does not exist; and on the other hand, as we formerly attempted to show, the temptations to alcoholic abuse are exceptionally great.

(3.) We have next to consider the state of nervous shock collapse in relation to the use of wine the condition in question may be caused either by violence, by some surgical oterstions, or by extreme emotion, in either case its essential features \* are the same. The pulse is small and also woft, and is manally irregular in force or in rhythm, or both; the skin is cold, the pupils, more frequently than not, dilated, and always markedly inactive. Consciousness may be variously affected, up to entire insensibility, and down to a more anathetic condition, with scarcely any loss of intelligence. We would draw aftention to the fact that this state is decidedly different from another with which it is often confounded, and which is perhaps the most ordinary result of mental shock; in the latter there is first of all a condition of dustinct reser, followed by palestation, flushing of the face, violent and irregular pulse. The two conditions are not only physiologically but therepentually dislines; and although the depression may seem equally in the last . case as in the first, we must not allow ourselves to be deceived. In the case of true shock-collapse the great object must be to rouse the attention of the brain, so to speak, and for this purpose the strongest stimulants, in concentrated-form, are the best. Brandy diluted with only an equal quantity of water is the most suitable remedy; and if it cannot be swallowed it should be given in the shape of enemas, but even here it would be a great mistake to suppose that convinces quantities of alcohol would be beneficial. On the contrary, in resomen with the two other great members of the anaeshetic group of narosticachloroform and ether-alcohol in decidedly naroutic doses is singularly depressing in shock collapse, though less so than either of the other two, and we may here remark that there then is no such maensibility to its narcotic influence as in the depression produced by harmorrhage only. In shock-collarse

I Vide Practitioner, July 1869, " Indiscriminate Stimulation in Chrone Titerase"

s We have elsewhere in this fournal expressed our belief that this state in the only condition which truly contracted chloroform analythms in putients who are at all fit to bear an operation

it is best to give an ounce dose of half-and-half brandy and water every fifteen minutes, and a very few doses are all that are, useful; the rest of the work must be done by such stimulants as surface-heat, friction, &c., and advantage must be taken of the earliest apportunity to administer food, if the patient be in a state of fast.

It is quite otherwise with the state of shock-depression that commences with a sudden rigor, followed by quasi-hysteric reaction. However alarming the depression may seem, alcohol is not the best remedy. Sulphuric ether given by the stomach if it can be borne, or in extreme cases injected into the rectum, is at once more effective, and greatly less objectionable than alcohol; it is at once a stimulant and a regulator of cardiac action, and in milder degree of the whole cerebro-spinal nervous system. Forty-minim doses may be given by the mouth (in 2 or of acacia mixture), or 60 minims may be injected per anum, suspended in 3 ounces of mucilage. Camphor, in 5-grain doses, is the next best remedy for this state.

In our next paper we shall speak of the uses of wines in chronic diseases, and therewith conclude the series of papers on the Medicinal Uses of Wines.

### Rebielos.

On Diet and Regimen in Sockness and Health, and on the Inter-dependence and Prevention of Inscases, and the Inscrimination of their Fatality. By Housen Double, M.D., Sensor Physician to the Royal Mappins for Inscases of the Chest, &c. &c. Fourth edition, much revised and enlarged. Landon: H. K. Lewis, 1870.

This book is a presseworthy effort to accomplish an artemetry important task, and one which it is strange enough that the English physician has of late years set himself to easy out. There can be my doubt that a really good manual of dust and hygiene is a great desideratuse in this country; for such works on the subject as exist in our language are now considerably out of date, and cannot be said to represent the actual state of scientific knowledge. Under these crysumstances for Itabili published the first edition of his present work in 1464, and the book has now reached a fourth edition. We had not personally met with the earlier issues, and the work now comes before us for the first time.

We have said that we think the author has made a landaifie effort to supply a real want, and we may add that up to a certain point, his work may be commended, not only for the intention but for its manner of execution. In Dobell has taken much pains to acquaint himself with recent researches of physiologists on questions of alimentation, and to express these results in a simple and compendious form; and he is entitled to credit for grappling with subjects which are too frequently left out in the cold, neither the professed hyperaist nor the systematic writer on medicine taking the trouble to state with accuracy what is known about them, we refer thiefly to his rumarks on the "interdependence of discusses," in which he endouvours to trace the way in which one kind of discusse pre-existing in the body (perhaps as a mere remnant or vestige of its more severe action in the part) will modify the whole course of subsequent diseases, although the latter may seem to be far enough removed from it in the nosological ratalogue

The intention, then, of the book is good, and we may add that, as regards the subject of diet, the author has done good service by drawing out a series of diet tables, which will materially assist the practitioner in that important task, the provision of a sufficiently varied nutrition which shall still always maintain the standard of alimentation as regards the essential physiological ingredients. He has also taken some pains to place the question of the dietetic use, of alcoholic inquors on a prictical footing, by supplying a table in which the alcoholic strength, and some other important particulars of the principal formental liquors, are set down in plain figures.

For the rest, the book can hardly be said to present more than a hasty outline of the great subjects which it deals with. Its composition is somewhat fragmentary, and the reader is too frequently tantalized by the way in which an important topic is introduced to his notice, and then dismissed with a few curt remarks which leave the student unsatisfied. There is plenty of shrewdows and common sense displayed, and occasionally there are marks of real originality of ideas. But how incomplete the work is, the author himself will probably be among the first to admit, when we remaind him that he has said nothing at all upon such important topics as the peculiar nutritive needs of misney, childhood, and edolescence. In short, the book has considerable value as directing attention to points in the management of the sick, and of those who are merely prone to sickness, and in this respect it may be profitably studied by every busy medical man who wishes to increase his store of practical information, but it scarcely deserves the title of a "Manual" of its subject, and we cannot think that in its present shape much good would be done by putting it into the hands of non-professional persons for their private use, as the author proposes. The next edition should be much improved.

Electricitälskre für Meduiner Von Dr I ROSENTHAL, A. Ö., Professor in der Universität zu Berlin Zweite vermehrte u. verbesseite Auflige Berlin Verlag von August Hirschwald, 1860 London Williams and Norgate Price 4: 6d.

A Treates on Medical Electricity By JULIUS-ALTHAUS, M.D., &c. &c. Second edition revised and partly re-written. London Longmans, 1870

THERE is nothing more striking in recent therapeutics than the change which has come over the attitude of the profession, at any rate of its leader, in regard to the employment of electricity in medicine. Only ten years ago, to announce oneself a believer in electricity as a remedy of positive value was a hazardous thing, one was apt to be met directly with an incredulous smile and shrug of the shoulders and indirectly with the damaging rumour that one was taking to quackery. Even now there are

especially in England, who pertuneunusly refuse to a knowledge

any real worth in the treatment

The especial incredulity of English mederal men may be readily accounted for by two facts in the first plans mother electric quicks have been repectally ratebant and exceptionally dishonost and meanable in this country, and secondly, the ignorance of the English medical profession converging the elements of electrical science was something profund and amazing It is a fact that, till quite lately, not one English doctor in a thousand was acquainted with any other practical means of applying medical electricity than the common relative magneto-clockic machine, that the latter was commany spoken of as a "galvanic battery," that if any one talked of continuous and interrupted currents he was recental with a possied stare, but if he west so far as to speak of the difference that he ed sterrer tratters indecessorated appropried required either as a lunatic or a more mystoffer. Yet all their time it was perfectly well known to the for who take the trouble to study French and German moderal leterature, that discoveries of prolound importance had been made, and that some of the best secentific minds of the Castinent had thrown themselves into the study of sinctrucal physiology and thereposition. Let it always be remembered to the could of the Lithana that he was the first to raise the elect of the progress in this country, and that he did to in mid times when it true and mach moral courses for a man with reparties soft is a lo enough the success of his career in the routine practice of medicine, to deliberately devote his best enginees to a damper sea and unpopular study. The first edition of Dr Althous work was to the few who cared to master its contents a revelation of facts quite unknown in this consiter, and to its prevential though slowly-arting influence must in commun faired be sacrified nearly all the progress of enlightenment upon them topics in Eduland. We say all this the more strongly because we cannot congratulate the anthre quite as unreversely as we could wish on the character of his we said witten intely served. We wish to state outh plainly and once for all the sirt of ideation we make to a work which taken as a whole is one of very high ability. With all the concusaem and almost naiversal correctness, on general principles which the book displays, it is very far from communicating such precise information as to practical details as would have lived most truly serviceable to the practitioner. Dr Althaus was perfectly right in his determination to give the principles of electro physiology and there peatics, but surely no one knows better than hims if that if the busy practitioner is to be just in a justified to employ electricity with real knowledge, in his daily work, he requires a variety of 172 REFIEWS.

precise directions as to smaller matters. Indeed, it may very well be questioned whether the ordinary practitioner requires, or is benefited by, any study of the more recondite principles : but he assuredly does need all kinds of information as to the actual use of instruments. For instance, he has naturally only the vacagest idea of the relative positions in which the conductors should be placed in different kinds of cases, and it is useless to refer him in general terms to Ziemssen's great work, even if that were always strictly to be relied on. But the incomplete-. ness of the directions reaches a more serious point in the chapters on the electric treatment of certain groups of nervous diseases: this is especially the case in regard to the paralysis of the lower extremities. Every one who has much to do with nervous discuses knows how very numerous, and how extremely varied as to their causes and their whole clinical history, are the paraplegic affections; and we cannot but think Dr. Althaus's remarks on this head are insufficient to give the practitioner any clear idea of the differential indications for electric treatment which the author undoubtedly could explain with far greater fulness. Above all, there is no attempt to distinguish between two essentially different varieties of emotional paralysis; the true hysteric paralysis, in which there is always more or less affection of the a unbility of the limbs, and a kind of emotional paraplegis in which there is no such affection of sensation at all, and in fact no paralysis whatever, except of the voluntary motor impulse. Yet it would be wrong to call-these last cases mere shamming: and in a secondary manner-is, by reason of the results to muscular nutrition—they also may some to · require the application of electricity; but the principles of their treatment are quite different from that of the cases which are attended with characteristic hysterical lesions of sensation. (The word "hysterical" is of course very had; but it has too well-defined a meaning to be casily laid aside.)

So much we must -iv in criticism of Di. Althaus's method in dealing with the treatment of the cases as to which it is most widely acknowledged that electronity can do real good. We must repeat these remarks in reference to that part of his book which deals with the more obscure and disputed curative agencies of electronity; here, also, we regret extremely that he has not followed a different plan. If "instead of brief and hurried remarks, largely made up of the statements of other observers, on an immense number and variety of diseases at first sight very remote from the probable field of electric influence, Dr. Althaus had directed his keen intelligence and extensive scientific knowledge to an exhaustive inquiry into some one or two of these less known subjects, and by the analysis of a sufficient number of cases had satisfactorily proved or disproved

the power of electricity to effect the benefits with whichest has been credited by some, many readers who will most push saids his book with impatience, and perhaps incredulity, would have thanked him heartily. To take only one such question the possibility of favourably influencing the intrition of the resume by means of the constant current; of this there is enough prime facie probability to call loudly for further negary, at the same time, as Dr. Althaus himself admits, the research ought to the made on a large scale, and with the constant control of ophthalmbucopic observation. If our author had himself sarrand out such a research, at the Moorfields Ophthalmic Ibequial for instance, the results might have been most valuable.

After this amount of complaining, heavens, it would be nejust if we did not remark that Dr. Althone's work deserves a substantial meed of praise. If the strictly therapeutic gest ha as we think, less perfect, and less pro-tically neefel than he might have made it, on the other hand his description of the leave of electricity, of the various kinds of electrical apparatus, and of the principal facts of electro-physiology, one full and learned, withcut-being chacure; and the reader, even if he previously known little or nothing of electrical science, undoubtedly may learn all that it is necessary for him to understand respecting these matters, by a carried study of Dr Althons's book alone.

Dr. Rosenthal's book is very different in its character from Dr. Althaus's. It is not open to represent he the wanty information which it gives on electro-therapentus, for the surface's objects has been a different one, vir to impact to medical men a sound knowledge of electricity in its physical aspects. Indeed, he expressly apologises for the existence of his bank among much a crewil of treatmen on medical electricity as have appeared within the last few years on account of its almost entire areasance of the direct discussion either of electro physiology on of electro-therapentics, a featum which is even more marked in the present than it was in the first edition, and we present that the author's unexpressed meaning is, that with all the talk that is now gurns on about medical electricity, there is far too little diffusion of sound knowledge with regard to the fundamental laws of electricity. In all that concerns this latter subject Dr. Resential has a described high reputation in farturing, and for those who may be about to take up electric therapeutica with the sorious intention of extending our knowledge of its unabsoluty to the cure of disease, we recommend this book as a galanties part of the preliminary studies; and we should regret that the work is scarcely likely to be translated into English, were it not unadvisable to diminish the strength of the reasons which are daily rendering it more pressingly necessary that every aspirant to the higher medical knowledge should read German account of the main principles which must guide the application of electricity in made me, and in reference to this we may briefly mention two or three interesting disputed points which are gianced at both by Dr. Althaus and himself, and which are of considerable consequence.

The first of these most routs is the question as to the real nature of the differences between the currents of the so-called primary and secondary coals of induction apparatuses. Duchenne, as is well known maintained that these differences are very important, amounting almost to a complete dissimilarity of function of the two currents; subsequent observers, especially Becquerel, have altogether denied that the differences were equated and have declared that they depended simply upon differences of tension, the primary wife being there and thick, the secondary bring very long and thin, and therefore offering a resistance to the passage of the current, which involves a considerable elevation of tension. Dr Althaus agrees with this view, in the main, but does not consider that it altogether explains the acknowledged differences of action between the two currents, he remarks that it should be remembered that the primary current moves always in the same direction, and has therefore feebly electrolytic effects: while the direction of the current is constantly changing, and the electrolytic effects would therefore be constantly neutralized; and he believes that this circumstance must be taken into account, as well as the differences of tension. I'r Rosenthal is convinced that the difference between the action of the two coals depends entirely upon the accidental conditions which Duchenne introduced into his own apparatus. And he remarks. that an apparatus specially constructed for the purpose by Dubors Revinond reduces the distinction to a minimum, the recorders were of this machine his much fewer convolutions than that of Duchenne Resented altogether opposes the practice of uniting the currents of the two cods, which he says is more waste of force, it is better to have the secondary were constructed according to Dubois' prunciple, and use that only. We are naturally somewhat chary of disputing with an authority like Dr. Resenthal, yet we cannot help thinking that these duta on the subject of the induction currents sayour a little too much of the mere work of the study and the laboratory, and too little of the practical use of electricity in the treatment of disease. Doubtless the greater part of the difforences observed between the primary and the secondary current are due to differences in tension, but we cannot readily believe that this is all Quite recently our attention has been rather strongly directed to the varieties of effect which are observed respectively under the influence of the primary, the not be made the manner to the hand halfer as and have week a son

junction of the coils; and some very enricus facts which is would take too long to narrate here, were observed, more especially in working with Gaiffe's small apparatus. And certainly we must altogether dispute the statement that the junction of the two coils has no special differential value over the single use of either primary or secondary.

Another magarisms question just now in consection with practical electro-therapeutics, is the manner in why hoods arepuncture may be best applied to the treatment of assertion Dr. Akhana, as our readers may probably remember, is a very warm supported of the view that the aspeties pole, and that only, is the proper shout for producing the electrolyte changes in the blood contained in the ancurrental on , and he is sarrantic at the expense of Prominishi who had printed a surressial case of galvano-paneture with the te clive trele, when is reality it appears that the negative must have been used and bearing. hold was in ignorance of the principles of chatca if corrects, For our own part, we must say that this question of which pole to employ shows to us to have been dealt with in the exclusive a way the the one hand it would appear, from the never hea of Dancau and France, that there is good and interest in layour of the positive pole, on the other hand the recent Italian cases seem to show that the alternative is a in pressive and negative . yields very great results. On the whole we are inclined if anything, to prefer the nathed manted by Cansalla and Decriatoform of passing the currents alterrately but this and a namily of other questions shout gale not purply will ere builty be shortly solved by much larger praticillar receipes than base yet been recorded Meantime it is interesting to note that Im. Rosenthal recommends only the use of the positive tele-

Journal of Anthropology No. 1 July 1870 -We have received the first number of this pourned which contains some excellent papers We cannot but regret however, that the society has separated from the bilinelogued, since it appears to us that the objects of the two are common, and that, however good the material of the hist tow numbers may be the establishment of competitive journals on such a subject will only lead, in the long-run to the publication of numerous medicere papers metalli of a few of first rate character. No such imputation, however, can be made to the present number, and we would call the attention of our readers to the opening address on the aim and scope of anthropology by Mr C Standard Wake, one of the editors, to an essay by the same writer on the Influence of the Phallic Idea in the Religions of Antiquity, to a very interesting paper by Lacut -Col. Ross King on the Aboriginal Tubes of the Nilgiri Hills, and to a series of short articles on recent works of interest in anthropology and allied subjects

## \*Clinic of the Month.

Treatment of Acute and Chronic Bright's Disease. Dr. (worge Johnson after defining this disease in the terms of the "Nomencliture of Disease," and describing the causes, observes that a leading point in the treatment consists in lessening as much as possible the excretory work of the kidney, especially in scute cales. The main points are: rest in bed, in a room of moderate and umform temperature; a carefully regulated and somewhat scanty diet, and the adoption of means to promote a free action of the skin and bowels. In a large proportion of cases, rest with a scinty diet will suffice for the The diet may consist of milk alone if it suit the patient's stomach, or milk with an egg or two in the course of the day, or with the addition of beef-tea or other animal broth. Stimulating diurctics, such as squills, or cantharides, or turpentine, are injurious, by increasing congestion of the kidney. The best diureties in such cases are those means which tend to lessen renal congestion-dry-cupping or hot fementations over the loins, hot air or water baths, purgatives, and a scanty diet, with a free use of diluent drinks—one of the best and pleasantest drinks being the imperial drink, made with cream? When the renal congestion is extreme, of tartar and lemon. as shown by the scanty secretion of highly albuminous urine, local bleeding by locches or cupping on the loins is often extremely useful. As a rule, it is well to give no alcoholic stimulants, the imbibition of alcohol imposing extra work upon the kidney, and so is opposed to the principle of lessening as much as possible the work of the inflamed gland. There are two preparations of iron which have been very efficacious in Dr. Johnson's hands—viz the finefure of the neighboride, and the syrup of the phosphate. They may both last be taken with the food, and a few grains of hydros blorate of aminomia may be added with advantage. Instead of the hot air bath, Dr Johnson is in the habit of substituting prolonged packing in a wet sheet. surrounded by blankets. An ethcient diuretic is a strong infusion of broom-tops, and the free action of a hydragogue purretive, eleterium, compound jalap powder, or compound gamboge pill, is very commonly followed by a copious flow of urine. Acupuncture is requisite, and affords great relief when

the animarca is considerable. When peroxysmal diarrhees is present, with rapid and feeble action of the heart, either brandy or hydrate of chloral may be presertled. (See Lancet, Aug. 6.)

Treatment of Enlarged Tonsils. A conespondent of the Best h Medical doursal states that is a 1 mil application in throme cases of chlarged tonsils, he knows go nother separate alum either as a parche in powder or is a dust of equal parts of burge alum and cum order the tener up with the damp brush, and the latter blown upon the part with an indicate bottle. These modernof treatment however in conjunction with other remedies, require steady persevering application. He states he has never seen any perman it good from excession (See Brit. Med. Jense, Aug. 15).

Retroversion of Uterus cured by Local Depletion. Dr. Meadows in it is a car of a patient agod 41 who had had three children and three interesting of the local phenomena due to a injury of clother retries of the local phenomena due to a injury of a contract with an it is an at the engloyform injury of a contract with a first and at the engloyform injury of a contract with a first and at the engloyform injury of a contract with a first and a first and a contract the contract with a first vals of the first and a first and a contract which are a first the atom when the english to a first the anticolour was and a contract with a contract the abstraction of blood. See James, Aug 6,
1970)

Tieatment of Visceral Neuralgia, Dr. Albert Eulenburg the cribes various forms of this affection. Amongst others he speaks of manufact of the test, which he remarks, is as obstinger and is punish and tormenting. Take other changes in the gental apparatus it sometimes produces pivelin direction altogether out of proportion to the gazity of the dreve hypochondress inclandality and so on. The affection sometimes has remissions of long fluidion, but never electricity. The treatment is somewhat experimental, the pathology and cloology being still objective Support of the testicle by a suspensory hand gives relief from pain. Various remedies have been tried tomes, non, gumme; now cold douches, hip-bath sea baths, and now nanotus, arsene, turpentine, and many others. The greatest relief has unquestionably is ulted from hypodermic injections of morphia, which may be most efficacionsly employed

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in the region of the spermatic duct. Some cases are on record in which marriage has effected a cure. With regard to operative treatment, ligature of the spermatic veins and subcutaneous incision of the tunica albuginea (Vidal), as well as ligature of the spermatic artery (Bardeleben), have in some cases acted beneficially, although no permanent effect resulted. Castration, sometimes urgently demanded by the patient, has in some cases effected a cure (Russell, Astley Cooper), in others the disease recurred in the spermatic cord, or in the testis of the opposites side. (See Medical Times and Cazette, July 30, 1870.)

Perforated Zinc in the Management of Amputation.— Professor Clehnel remarks that for some years past he has found a roll of perforated zinc a thing extremely convenient to have legide one in surgical practice, as it may be made altogether to replace the use of pasteboard and wooden splints. It is even better than wire gause, recommended for aplints many years ago by Mr. Startin; it is certainly cleaner, and he thinks stronger and more easily managed. It is especially useful, he thinks, in the dressing of stumps, and he recommends in a case, for instance, of amputation of the thigh, that a strip of perforsted zinc, about half a yard long, and about the breadth of the stump, should be taken and folded like a pair of sugar-tongs; then, having arranged the proper pads in front and behind, and leaving the lips of the wound bare, or only slightly covered, the zine should be so slipped on as to have one end in front, and the other behind the stump, while the folded part is allowed to . project some inches beyond it; finally the whole should be secured , with a bandage. This plan, he thinks presents many advantages in military surgery, protecting the injured parts, permitting the pressure of the hands to act in the desired direction, and enabling the surgion to see and clean the wound without undoing the bandaging in the later stage. (Ibid) .

Groton Oil in Scarlatinal Dropsy.— Dr Liddell states that for the last twenty years in cases of dropsy occurring as a sequela of scarlet lever, he has invariably given croton oil, in does varying from one eighth to a quarter of a drop, rubbed up with a little inuclage, syrupe and water. This dose is given every morning and repeated every two hours, until free purgation is produced, and with results highly satisfactory, every case so treated having terminated in rapid and lasting recovery; and in some, after other treatment had failed. In fact it is attainable, within the patients are not delalitated by the purgation. (See Article Mournal, August 13, 1870.)

Treatment of Chronic Hydrocephalus - I'r Di Kishon, in the course of lectures now being published in the I smilt were the following observations on the treatment of chrone federa-The treatment of this disease must be gainful. Sita (Alts In the rare can san which the efficient is our asset in the arm hund casely, and its moreom recognised, we in plit lease to do good by painturing the cost and approximately standards external pressure. In regard to represent the pro- the treat . ment must vary according as he have to deel with present cerebral pressure or diminished er and most and order have commenced with active brain symptoms, and as best to enlargement of the head, and anisecomete to the general consideration of the skull, our hope of desirg premainest pred will he small; purpatives, singethe and executate of the incomina class appear in the cases to dir the last chance. Paretenne bears strong testimony as to the new of the reason who period thems in fluid pressure within the land, and hence there is a source the old rule, " when in doubt, give recent," and the communication tion of hime paik digitalis, and miguile, anguinted by in. M Barilie, is a good made of administering it. In the mage immerous cases of chronic hydrocoldalae in which there is me exidence of the remod for source within and in which the exidence ment has not been be talked by sums of cerebral distortance was a may infer that the fault is in the emission riter than in the brain. Here the judicious use of external prosours as of the fir t importance, as it seldom fails to stop further to make to be if often on conjunction with other measures error as a charled diminution in the size of the head. In link in an his finish is the best way to surround the head with a fills of shorter." webbing the size of which is adjusted to maint up a present upon the head just short of engage, red marks or makintations It should be from two to three little with the leaser waith answering best unions the culargement in very commercial Cod-liver oil from and other remodies adapted to the rakety constitution, may promote centration help time to solder to gether the growing bones, and put an end to the progress of the These remains may be excusived with others chiefly (ILM-SMP of the distriction class, digitality liquid by trangers or and are edpotash, which may belp to lessen the accumulation cases, however, has important attaches to explant musicies than to those directed to the cure of the rickety state. (See Lancet, August 13 1870)

Snuff-taking as a preventive for Bronchitis and Consumption.—At the late meeting of the British Medical As oration at Newcastle Dr. d C. Murray read a paper on this adjust, in which he maintained that those who habitually task small rarely or never died from consumption. He also stated that several cases had come under his own immediate notice in which phthisical symptoms had been removed after free snuff-taking had been resorted to. He was of opinion that snuff-taking is in some degree preventive of consumption, and its frequent concount int. bronclates, in virtue, perhaps, of its derivative and quasi counter-initiant action. The way to cure a cold, according to Dr. Murray, is to have recourse to snuff-taking at once

Syphilitic Affections of the Eye treated by the Hypodermic Injection of Calomel. - Prof Quaghno and Dr Soresmagne the details of a considerable number of cases of various on the district of symbilitie origin in which this plan of treatment proved successful. Amongst others are a case of complete paralysis of the third herve of the right side, a case of punctated keratitis with syphifitic intis; a case of retino-hydrotis with syphilitic complication, &c. The calomel was sometimes imported by modernically into the temples, sometimes into the arm and great benefit was in all instances obtained. The advantage of this mode of treatment was pertrealerly well shown in cases of sectors units, and of the phistic form with posterior synechia and tendenty to o lusion of the pupil, the dilutation of the pupil and the breaking down of the adhesions being effected with computative facility Fr v 1870) Gwrnau Italiano delle Malatta Veneree

Indian Hemp in Monorrhagia and Dysmenorrhaea. -I'm belief published neveral case of the eathertions in which Intendemp privet of service boused thinks its value in "them is not off, iently known. In one of these a woman came to Character Highlerian in a fivolent pure in the I ut M 's him the flood being uldij elt lelthen iver to vie beining-down pun durin egil i Hill II t I vita intermission. for upward of a new lety a same la land been tred. and amongst other the hypters are on of morphia. At length Dr. Salver provided twenty two minimal doses of the teneture of Indian hangewhich to his surprise, acted like magic both pum and do force bever, totally coased after a tew doses som men was er biel de ne nitt of the amornic state of the woman, and he entired unlike evition for a conmelerable time during which he remared well Dr Silver records several other cases of functional manorihagia in which count benefit was obtained. He believes that when it is given repeatedly, cach time aire ting the dis harge and relieving pain, but when omitted these again recur there is just cause to on part the existence of uterms measured other than merely

functional disturbance. (See Medical True sund to 14 July 16, 1876)

Treatment of Bleeding Cancer by Chloride of Ziac Paste. Mr Manucher nantera err alle tin kutte mi be it most humane toothed of the many on self-resort as it is Injudual entails less in all est in the free free and and 141 T 11# met with which his mine i 1+ 55 . Operation whilet it see as it has ever 1 4 7 takereclean away by the acree it 1 11 1 other means, and life per main ter a ter the M gives the case of a woman of fact a cy west at a manage good general health note ed a lump on trib lete in any of at two years previously. At the ten a cond at heal ender red to t become deeply adherent In 1 to avail to a land and hiseding had a time literate the mean a diministration the kened exerced a surfact of the many thick the name of the norm of the disease and the odone was very offenouse. The treatment are prosent a section in the application of a pie e of sinc issue to the mafeste file a below the breast, and en the forest laster between effects of the number of the water made riel fratel the first lies and a fight me of the adjusted morning plant. Here or eft wer to .. absorb any provide distant, a pass of set of a called planter a compres of list and a fine to the till 35 a till Tumptrent teme efofte at erm wer boate ti ? " # ab 4 having been all well to an itea it 1. provement followed and the sure to a set a to block with every prevent of alternate and speech or a major of his mount. (Ibid)

## Extracts from British and Foreign Journals.

Communication of Syphilis by Vaccination.—At a recent meeting of physicians in Germany, this suffect was discussed by In Auspitz, jun There can be no doubt of the importance of accurate information upon it in a practical point of view, as there have been several outbreaks of supposed vaccine-syphilis in different countries during the last few years, as at Morbihan in France, and in Berlin. The advantages of vaccination, Dr. Anapitz remarked, are too well known from the inquiries of the London Commission to need repetition. The disadvantages that have been urged against it are, that vaccination with humanized lymph deteriorates the human race; that it may be the means by which diseases are communicated to healthy persons; and lastly, that it may cause the development of various diseases in the body, which would otherwise have remained quiescent or latent. As regards the first point, of course only those diseases could be communicated which are known to be capable of such transterence from one person to another. Thus it has been maintained that scrotula has been communicated by the vaccine ·lymph; but it must first be assertained that scrofula is comnumerable. We know very little of scrophulosis, but that little is in opposition (i) to the possibility of its transference in this in other from one person to another, and in opposition to such statements the opinion of Jenner may be advanced, that many dicers have become sen ideadily less virulent since the introduction of vaccination. Jenner moint and that rachitis was not so severe as formerly, and Luchmund is of the same opinion in regard to hooping-cough. Again, the furest experiments of Heme and Pustice seem to show that no diseases are transterrible through the vaccine lymph. In regard to its causing the development of previously latent distase, it is difficult to make any precise statement, and it is unquestionable that it. often excites much irritation in the body. And now comes the question, whether syphilis can be transmitted through the vaccine lymph. This question leads logically to another, ic. whether syphilis, that is to say, not primary but constitutional, is communicable. In the bitteenth and subsequent centuries, when the ravages of applicia were so frightful, no doubt was enter-

tained upon the subject, and Ulrich of Hutten and Kramons of Rotterdam wrote treatises upon it. But more require the two has been regarded as mythical, supersally after liquis; and Ricord had declared against it until the modern experiments of Waller and Overbeck had incontestably established at as a fact. In considering the point whether constitutural syphilia can be communicated by vaccination. M Auspitz adduced a number of different outbreaks, of which the following age the · chief. In 1807, Moseley and Montogen observed appearance after "vaccination which closely situated syphilis recently, the vaccingtor Hubert provoked an outbreak which led to a careful investigation of the whole subject, and Habser was punished. In 1862, Lecord published cases of variance syphilis in two soldiers, but ascertanced that in obtaining the lymph the lauret had been pushed in so deeply at to draw blood. At a later period the epideraic of varerue syphilm at Rivalta made a great sensetion, where syphiles was communicated to eighty children by raccination, of whom eight shod, Here also it was agreetained that not only lymph last blood was abstracted from the patient who supplied the lymph Lastly. there was an epidemic at Hesières, in which the contamination of the lymph with blond was ascertained to have taken place. Prom these various well authenticated cases there can be no. doubt but that exchilis may thus be communicated. It now demands to be investigated by what process the application comtagion of the vaccine lymph is effected. Is it that the vaccine lymph itself, in passing through the body of a person sufficing from secondary syphilis, becomes so mustified as to be empation of communicating the disease? Such a view is not in accordance. with the numerous investigations of flux felder and latour, who found, in many experiments with vaccine is mph from symbolism patients, that in moone instance was the syphilis propagated; sail less is the view admissible that the transference is effected as a coschanical mode by impurity of the vaccine lancet, in . The enty remaining view is, that in the cases where vaccins cuisionics have broken out, the lancet has depped into the bland of the patient, which has thus contamenated the lymph abstracted from him. This, as above shown, was ascertamed to have taken place in every instance when an outbrook occurred, whilst the experiments of Viennois, Robner, and Cambanini have abundantly proved that the blood of syphilitie patients will communicate the discuse when introduced from the affected person into pusher Four inquirers have also made direct experiments to elucidate this point. Specino and Bunne in Turin, Friedinger in Vienna, and look in Christiania. Two series of experiments have been made. In the first, vaccine lymph was unughed with the fluid of a soft chancre; a true chancre was freduced, the fevelopment of which of course, ewered and concealed the vaccing process. In the second series the Hunt trunch mere was used, but no definite results were obtained in eleven cases. Hence the theory of Vicinicis remains the most plausible, that in cases where syphilis or urs through vicinition it results from some of the ble Lef the directed prison being taken, with which the sound patient has been modulated. There certainly are cases on re or line which no blood has been taken, but this secretly constitutes a trong of petion to the their. The chief difficulty, pathage term to prefet to the part between which firstend of being a usual with constitutional syphility from two to three weeks as here only tendays.

\*\*Illy meme Women Medicansche Zeiung No. 20 in 122.)

Treatment of Croup. In Pudyer Buker after defining tra cr'up mel di tinguishing between ik "spasmodie" croup. and diphtheris con iders that success in the midical treatment at this disease depend in a ment men me on the use of efficient remedies in the very communication of the attack, whilst in an advance I strat when life is in propulty from asphysia, the man reliance mut be upon tracheotomy. He always commences the treatment by an emetic of turpeth mineral thydrargen sulphas flee it in doses of from three to five grains. according to the use of the child. If it does not ut in fifteen minutes which is a rue exent he directs a second powder to be given. He picker this emetic on account of its prompt action, its tastelessness and facility of eliministration, and the absence of any subsequent depre in It is ilso much more effective as a revuler and sed dire than the alphate of copper, depleting the and one membrane by the abundant secretion of mucus that i the en up and removing from the largest by the forced \* it taken is in use all mamons or fibrons exudation. hart bring filling the The following morning, at the chart have a quack rate hot skin hurred be other and an or even derin ing emph with no thorony tales he directs that it shall be bept quot in had and prescribes the veratrum viride time time with spirit of intige other infone or two drop doses. mere using or diminishing it, every eight hours, according to its It there are rules be present, he adds a a tion on the pullittle yrup of tolu and embonate of ammonia. Sometimes an the identity stages of crosp when the respiration is hurried interes of a method on his hart with less in a ked paroxysms, in substitut fire dy of quame with senge and ammonia Pamphier termined by the Author's

Radical Cure of "Ingrowing Toe Nail.'—Di Trucheurt, of Telle, believes that the operation advised by many of the text-believe and exquisite the cure of this intractable and exquisite the cure of the cur

sitely painful and troublesome aff thin the 1, of the -nul through longitudinuty and then tests , , , or the lateral offend no particular to 1 1 mellectual During the we be or a non not that the formation of the new neal the patents of the m wearing a shor or widen of vill . . . . . the unprotected two, with a an intracte

its mowth as the one read at

"The plan of training by with many down to the qual for cutting out a V shaped a . a 4 th m clevating the edges of the unit by parshing but units and that by drawing the impinging soft parts away from the 1 few 1 tha mail, by means of Alberton strips, no well must led the star start of the less aggravated obtain class of cases due to an engine hanged and exponence pre-raise of the self parts remarks to displace now quite smallequate for the out of the roles was no soon many cuilly when there is an almoral waith of not mornel or araumd

A little method of assention which I has a mounted to not most extend a tory regults in six out of right viry enviry were up which it was made, him in rain prive of thicker a will enter to the profession. It common in the research of the astronte found ince postume of the null untilled the change of the state of matter portaining there is the entirely for the line

mult being preserved rubbet to mere a figure of the the tre

"The patent which the anaw" to the on one or both alset the two sites stending from to just merbook # from back towards the foot can best to est a figure the adjecent joint of the tree. A thing it is from the me to be freelying as little as redsible of the material makes to than The horry pointed blade of a straight wisers a threat for a the well, cutting it through from how to fee torby and the strip of nail thus detached with the time be muth and it it must except at and thoroughly dimented out it winds the very just where wo we to include all the matrix concerns I to the dever, a set of that portion of nul

"The flaps whould be brought trather by all Any excess of granulatum present became hown a read out the integriment of the laterel aspect of the two of slid landmen over to the newly established ed a of the mad wors to were the wound enries made by the executive of the and and beld in place by edle is stripe. To the direct the it will be ende cases be advisable to discret in the integran at en she the of

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"Where much inflammation of the party exist at is distribuly

hest to reduce it before operating; and this is most effectually and quickly attained, and with least loss of time to the patient in the end, by a few days' rest in the recumbent position, elevation of the foot, with the use of cold lotions, &c.

"In the cases referred to above, the patients were able to walk about and wear a loose shoe with comfort in six to ten days. The two cases of failure were due to an incomplete extirpation

of the matrix. (The Medical Record, July 1, 1870.)

Treatment of Scarlet Fever and Subsequent Dropsy by Hydropathy.—The observations of M. Pilz are directed to the determination of two points: first, the action of cold baths in lowering the temperature in scarlet fever; and, secondly, on the action of hot baths in removing the dropsy. In regard to the first point, his observations were made on twelve severe cases, for the most part complicated with diphtheria. The children were immersed for from eight to ten minutes in a large bath, at a temperature of 77 Fuhr., the skin being vigorously rubbed, the both being repeated as often as the temperature rose to 101° or 103, so that many patients were bathed every hour. Fortytwo per cent of these had cases died, whilst all the remaining ones, as soon as the water system was adopted, recovered. depression of temperature produced was always small, not exceeding 1". The pulse and respiration also fell but slightly. It was observed that in mone of the cases treated with cool baths did dropsy occur. In the second set of experiments the effects of warm baths in removing dropsy after scarlet fever was tried. The temperature of the baths varied from 96° to 104° Fahr, and they were immersed for half-an-hour; the after perspiration endured for two hours. The first few baths were found to produce the greatest effect, as was demonstrated by careful weighing, and upon the whole their effects were beneficial. Experience showed that cases of pulmonary and cardiac disease required careful watching, and that there was danger when the loss of weight after the first bath was very great- (Jahrbuch f. Kinderheilk., N. F. v. 253.5.

The Treatment of Epilepsy.—Dr. Jansen relates the results he has obtained from comparative experiments made with bromide of potassium, belladonna, valerian, and the cold water system. It is remarkable that he makes no allusion to the oxide and lactate of zme, the action of which is as efficacious and persistent as bromide of potassium, whilst it has not the disadvantage of causing disturbance of the intellectual faculties. The water cure, which may fairly be associated with the latter, requires much care and circumspection in its use. M. Jansen considers that it is farely possible to obtain a complete cure

of well-marked epilepsy, though some improvement in the frequency and violence of the attacks may be looked for. On the other hand, we may often effect a perfect cure of epileptic vertigo. In almost all cases a considerable amount of perseverance in the use of remedies is required. (Annales Médico-psychologiques, 1870.)

Intra-uterine Medication, its Uses, Limitations, and Methods.—Dr. Peaslee remarks that applications to the canal of the cervix uteri are universally accepted by gynerologists at the present day as indispensable in uterine therapeutics. To facilitate descriptions he proposes the use of the term endometrium to indicate the lining membrane of the uterine cavity. He describes the various instruments, syringes, &c., that should be employed, and observes it should be known that pure water is not the least irritating of fluids, as seems to be generally supposed, in its action either on serous or mucous membranes: A weak solution of common salt, twenty to sixty grains to a pint of water, is much less irritating than pure water when applied to the eye, nasal paleages, uterine cavity, or even to the peritoneum. When used, the injection should be at blood-heat, and should be introduced very slowly, carefully, and without force. quantity injected should not exceed ten to fifteen drops in a virgin, and from twenty-five to forty in the case of a woman . who has been a mother. The return of any overplus of water injected should be secured by previous dilatation of the cervical canal by sponge tents, or laminaria, or steel bougies. The uterine affections not consequent on recent parturition, in the treatment of which these applications are especially appropriate, . ere metrorrheea (or uterine catarrh) and metrorrhagia, though, when these are dependent on displacement or tumours, the primary cause should be removed. The principal fluids he recommends to be employed are weak solutions of sulphate of zine, alum, tennic acid, and sulphate of copper; the tannate of glycerine, iodine and glycerine, very weak chromic soid, and when the endometrium is very irritable, a solution of chlorate of potash may also be employed. In tases of metrorrhagia, the persulphate of iron, or the perculoride, bears the palm. (New York Medical Journal, No. 5, 1870.

The Rational Treatment of Dysentery.—I)r. August 1)yes, of Hildesheim, observes that dysentery, formerly regarded as a catarrho-rheumatic affection of the mucous membrane of the intestine, is now considered to be an infectious disease, although the nature of its minum has not been determined. Now, since sulphate of iron and chlorune have long been regarded as disinfecting agents, it was natural to presume that, in the event of the disease depending on a specific minum, these agents might

prove serviceable, and he has assertained that, in fact, they possess a very powerful curative action, not only in dysentery, but in scarlet lever, diphthema, nanumnal diamhea, typhus, cholera, and measles. (Deat her Kin.  $^{\prime}$ , July 23)

Treatment of Acne by the Internal Administration of Glycerine .- It appears to be will established that the modes of elimination of medicines are fixed and definite; thus the kidness climinate the neutral salts; the bronchial mineous\_ membrane and the indomparous glands, volatile substances; the biliary ducts, metals. By inductive reasoning the sebaceous glands serve as channe's for the channation of the fats. M. Gubler has endersound to verify this hypothesis by clinical experiment, and the following fact appears to confirm it. A young gul affected with some panetata which had resisted various in thirds of treatment, such as borax and glycerine applied topically, was at length treated by the internal administration of glycerne, in the dose of two desert-spoonfuls per diern, in the hope that this sub-times, so analogous to the oils, would, like them, follow the ordinary modes of elimination, and in traversing the schuceous follicles would modify their secretion rendering their products more fluid. The result supported the theory. From the day that the remedy was first taken the pustules dimenished in volume and number, and soon disappeared altogether. The bowels, which had previously been costive, were rendered open and regular, though the glycerine by no means noted as a pargative. M timbler suggests its use in cases where the cerumen has accumulated in the ear. (Lyon Medicale, · 1870)

#### Motes and Queries.1

#### CURRESPONDENCE.

CASTRATION IN ERLEPSY.—Dr. Mackenzie Bacon sends us the following:—"In the Practitioner for June 1869, I mentioned a case in which I had removed the testes of an epileptic lad in whom I had reason to think the fits were mainly due to sexual excitement, kept up by his bad habits. At the time I wrote six months had claused since the operation, and a marked improvement had been observed.

It may be interesting to give the sequel, as eighteen months have now passed by, and this period is probably sufficient to

test the influence of the operation on the epileptic state.

The results are as follows. The lad has improved in health and general condition; is fat, and weighs 11 st. 4 lbs., as against 8 st. 9 lbs eighteen mouths before

He has con-iderably improved in intelligence, and is able to

make houself useful in simple work.

He has coased to masturbate, and seems to have no sexual inclination, but there is no apparent effendingly of character. He used to have the fits several times a week, but since the operation the frequency of his fits has been diminished thus .-In January 1869 he had 2 fits; February, 2; March, 1; April, 2; May, 4; June, none; July, none; August, 3; September, 4; October, 1; November, 1; Pecember, 2. January 1870, none; February, 2; March, none; April, 1; May, 2; June, 1.

In my opinion, the above facts are enough to prove that the operation was an this case successful, and I remain convinced, for the reasons I gave in my former paper, that it is one which might be performed with vast benefit on a number of the

insane epileptic class,"

TREATMENT OF CHRONIC DIARRHUM IN CHILDREN.-Dr. W. Murray, Newcastle on-Tyne, writes as follows:- I have just read the able article of my friend and former colleague, Dr. Enstace Smith, "On the Treatment of Chronic Diarrhes in Young Children," and I cordially agree with his remarks, except in one particular. He advises the administration of alkalies in

<sup>\*</sup> The Department of New Inventions is postponed till next month, from extraordinary pressure on our space.

diarrhora, with acid fermentation of the food, and holds that the soda and potash check this fermentation. For the last six years we have been carefully observing a number of such cases at the Newcastle Children's Hospital, and my colleagues have assured me that their experience confirms my strong recommendation of pepain and hydrochloric acid as the remedy for all such cases. The effect of this combination is to digest the child's food before it has time to femment, and to promote its assimilation. All wasted children, with loose bowels, passing undigested food, should in my opinion be put on a nitrogenous diet with pepsin and hydrochloric acid."

SARSAPARILLA IN SYPHILIS -- Mr. J. G. Da Cunha, of Bombay,

sends us the following:-

"I have read in the Practitioner an article by Dr. Clifford Allbutte on the use of sarsaparilla in syphilis, in which that gentleman advocates the use of this drug in large doses, and concludes thus: "I hope soon to hear that our practice has been

found useful by our brethren elsewhere."

I shall avail myself of this opportunity, then, in bringing forward my own experience on this subject. My acquaintance with the five of sar-aparilla in the form of a decotion in large doses first began about ten years ago, when I was at Goa, and where the plant thrives luxuriously in the low jungles on the slope of the Western Chauts, and in the hilly regions facing the coast. I believe the true name of the plant is Smilan ovalifolia, Roub. (Wight, Icones, vol. iii. t. 80%, similar in all its physical characters to Vera Cruz sarsaparilla. In that place its use is almost universal among people suffering from skin diseases, and I have known it to prove efficacious. The revelstion of its well-recognized anti-syphilitic virtues, however, dates from a more recent time.

Since I commenced my practice in Bombay, I'am in the habit of preaching the decostion of susaparilla in syphilitic cases in doses of from four to eight ounces three times a day, and the

success has been more than equal to my expectations.

The following are short notes of a few cases, among a large number, in which the treatment has been adopted. I shall, however, for the sake of brevity, describe only the salient features of each case, leaving the whole array of unimportant details uside.

R. B. —, aged 30, has a sluggish, foul, circular ulcer, of the size of a ruper, on the front and middle part of the right tibia, and three more at some distance from the sore. He looks very pale and emacrated. This patient took decoction of sarsaparilla for only a fortnight, and the ulcer healed and the nodes disappeared.

1). B --- , aged 26, has a large irregular patch of psori-

asis on the palm of the left hand, and numerous coppercoloured blotches on the legs. Complains also of severe headache every alternate day. Took detection of satsapatilla with sulphate of quinine for one month; is now quite recovered.

J. C—, aged 15, has two large ulcers; one on the wrist of the right hand, and the other on the coccyceal region; they both look very indolent, and discharge very feetid matter. Simple dressing was applied to the sores, and decoction of sar-saparilla administered internally in four-ounce doses thrace daily. After taking the medicine for one month the dose was increased to eight ounces, and within two months she was quite well. This girl was confined to her bed suffering from these ulcers for about two years previous to her coming under my treatment, and although treated by two other medical gentlemen, derived no benefit from any medicine except the sarsaparilla. Law her the other day, almost eighteen months after treatment. She is quite well; the ulcerated surfaces are cicatrized, and she seems to enjoy a robust health.

N. C—, aged 24, has been confined to his bed for the last three years; has been treated by most practitioners of the locality. Does not confess to having contracted syphilis. Has two big ulcers of a very foul and indelent nature on the right arm and left leg; is unable to move the limb; the joints are swollen and quite stiff; cannot bend even a finger. I put him at once on the sar-aparilla treatment of four-connect doses, increased to eight, three times a day. He took this medicine for three months, and was perfectly cured. Sores were healed, could move the limbs, and looked sound in health. At present he purfues his daily avocation, walks about well, and has all the feels sometimes painful.

In most instances, while giving the sarsaparilla, I am in the habit of adding from three to five grains of iodide of potassium to each dose, when the patient can hear it, besides asiding two or three grains of quinine, which seems to me quite necessary, under what I think a well-founded belief, that most of the diseases of this climate have a malarious ingredient in them. This has always borne good effects, as the periodical pains my patients have been complaining of have subsided under the use of quinine.

I beg now to close this article, really rejoicing that Dr. Allbutt should have come forward and published the results of his vast experience of sarsaparilla treatment, and thus afford me an opportunity to contribute my own insignificant mate towards the same end."

[A quantity of correspondence is unavoidably postported.]

#### Libliography.1

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## THE PRACTITIONER.

OCTOBER, 1870.

#### Original Communications.

THE TREATMENT OF THE INSANE WITHOUT MECHANICAL RESTRAINTS.

#### BY "HENKY MATIMLEY, M D.

Towards the end of his life the late Dr. Conolly was wont frequently to express his fear lest there might at some future time be a recurrence to the practice of using mechanical restraint in the treatment of the insane. Recent eventy have shown that his apprehensions were not so vain as they then appeared. The injuries that have occurred to patients in some of our large asylums have caused certain writers to hint doubts of the value of the so-called non-restraint system, while others have gone so far as to advocate openly the use of the strait-waistcoak They would have us give up a system of treatment which has been considered by English alienists to be the great ment of English asylums, has hitherto been zealously defended by them against the attacks of loreigners, and has now become so general, that there is hardly an asylum in this country in which a · strait-waistcost would be found. I cannot help thinking that those who contemplate such a retrograde step have failed entirely to grasp the principle upon which the non-restraint system is founded, and that in this matter they are very ill adapted to be public instructors. It seems proper that an earnest protest NO XXVIII.

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treatment to which he is subjected, and if this be at all harsh and annymenthetic, he naturally becomes furious, and resists it with all the energy of his frenzy. His delusions are thus strengthened and fixed, whereas, by gentle usage and sympathetic attention, his confidence is gained, and they are gradually undermined. Angry usage, may even an angry word, sometimes dues incalculable muchief. It is easy to perceive that if a patient imagines himself to be in hell, or about to be murdered, and those around him to be devils or murderers, as happens now and then, he is not likely to be disabused of his murbed idea by dead like treatment. The principle of the nonrestraints system, in the true acceptatum of the term, is, whilst avoiding a meddlesome interference, to make all the surroundings of the poor lunatic as tranquil, as orderly, as gentle as may be consistent with his proper care, to counteract the commotion in him by an absence of commission in what is afound him. The lunatic carnot, any more than the same person, resist the steady influence of his surroundings; he assimilates them unconacionaly, and they modify his character for good or for evil.

How little a system of mechanical restraint fulfils the conditions of the just principle of treatment is so plain that a wayfaring man, though a fiel, can hardly fail to see it. An esited, active petions, urged by an uncontrollable instinct of morpment, desiring and needing above all things freeders of limbs, is secured hand and foot by mechanical appliances; with what result? That he is provoked into furious mania, expends his energy in shouting and raving and becomes dirty in his habits ;- diriness in some shape is, in fact, unavoidable under such ofreumstances. But it may be argued, as it is sometimes argued, that it would be better for the patient to be so restrained mechanically than to be restrained by the efforts of attendants, who, in the excitement of strugging, are apt to overpeas the limits of a temperate exercise of force, and to proceed to passionate acts of violence. No doubt, if it were necessary tohave such struggles where matraint was not used, and not necesmary to have them in order to apply restraint, there would be semething to be said in favour of its use. But it is very seidem momentary to have a physical contest with a patient; indeed, if contests of the kind were of frequent occurrence, it would be

string, evidence of a bad moral tone in the management, and of a neglect of proper medical treatment. If the whole treatment of acute insanity consisted, as some persons seem to insanite, in mastering the patient by physical force, and in endeavouring to stifle excitement by messa of opium and other sociatives, there can be little doubt that violent struggles and restraint in some form or other would be found necessary. But if an indiscriminate use of sedatives be avoided, and a rational medical treatment be directed to the bodily disorder which will commonly be found to accompany mental decangement; and if, furthermore, the smoral management be sympathetic and pradent; it will selden be necessary to recort to physical violence.

Let it not be supposed, moreover, that the imposition of mechanical restraint does away with seemes of violence. Far from it; it encourages them. Much violence must usually be used in order to apply the means of restraint, a desperate contest occurring before the patient is overpowered and left belpless, exhausted, and furious, with a bitter sense of degradation. Such struggles brood similar struggles, and the restraint used necessitates a frequent recurrence to it. There can be no greater fallacy than that of supposing what is called a moderate use of mechanical restraint to be consistent with d general plan of treatment, in other respects humans and beneficial. It must be dispensed with altogether, or deteriorstion will ename in the patient, and all kinds of neglect and tyranay will be engendered by degrees, until restraints become the usual substitutes for forbearance and watchful attention. As one great argument against slavery was that it demoralised the alareholder, so a very bad effect of the couplegment of restraint in Godling with the instance is that it demoralizes attendants. And on this groupd if there were no other grounds, it is necessary that the abolition of restraint should be absolute to be efficient, the principle of the non-restraint system will admit of no compromise

It must be allowed that when called to treat an acute case of insanity in a private house, it is not always so easy to do without restraint as it is in an asylum, where there are suitable appliances for meeting the difficulties which the excitement and violence of a patient may present. But if a medical man finds at absolutely necessary to a fine all to treat the whorshift the lines to so the gard of the excellent somewhere, if a contact to the second of the extension of the contact to t the born with a first term of a state and a soft of the first firs trongers of the state of the few news and possible at use sets that "is not be a Francis areas to the date of the content of the first the the angle town I turns I have the for a known a to think has at fith a first and area neund the Plan is myegeste in the material manel an t til a tamat fall a hitrialisisa Anger of Hand and and Angel and All tradement of marate two a cappely founted respects to affect than the from unel a to a we also I'v the at the tool ene of an wherefore grip at the first hand wan, an Anne and a start gite to be a fire that the total the total than the finger auf angen ift gegente twing in ban beit bieret Huntherst after this first and the a start transfer We we make a still the state of supposed to the last the set of the . To like the most there were the every charge are all and of in the formal, will continue to do so in the future. It would be a mission to answer the east regular flowing from their infinitionally to through-Lett they my mystige of a street the words of an existalist out and house water

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# EXPERIMENTAL INVESTIGATIONS INTO THE ACTION AND ESTS OF FEE FAIR A SEMERALIBENS

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The modeled "transmit grin in the is the moth to the played by Echarte physicians is a very faulty proposition. It is employed from the tractum in two starles by promptation and his communication. The instant method, of carefully consider test may formula a printfact or remining women of the alkabetic has the former much called our paradies that every a limb down and remaining the needs that activity of the plant. Including as feated in the the two first and the agreement of the continued and applied to the agreement parties of the transfer coken and the unterest fruitare a yell switch grounder as a t to primites of so gold recedence change better to the tente or I has a With integral of remaining Although I have it it a reservoir trials. I was notified to present with put coins the physiological affects of gelsemium. Free bly prepared to account expensions th may entern a posture of alkali of, but no femili in the shress in in unmorthly of contributions, and also ald said for manpleyed in medical practice.

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The following description of the physical and chemical properties of generica and prisoners and is taken from Dr. Wormley valuable paper

"In its pure state gelsemining gelsemin is a colourless, odosriess adid, having an intensels persistent bitter taste. Thus far we have failed to obtain it in the form of well-defined crystals. It has strongly basic properties, completely neutralizing the most powerful acids forming solts of which the sulphate, nitrate, chloride, and acctate are firely solidle in water.

"In its pure state gels name and is a colourless, odourless, nearly tastyless solid which is readily crystallizable, usually forming groups or tufts of delicate needles. It has strongly and properties, completely neutralizing bases and uniting with them to form salts, most of which except those of the alkalies, are at most only sparingly soluble in water. The salts of the acid having an alkaline base are very freely soluble in water, and see crystallizable. The pure acid is freely soluble in water, requiring about one thousand times its weight of this liquid for solution. It is much more freely soluble in hot water, from which, however, the excess immediately begins to separate in the form of long, slender needles, as the solution cools."

When Professor Wormley's paper appeared, I had already sompleted a series of investigations into the physiological action of geliagnium. Notwithstanding I had operated with an aqueous solution of an extract prepared with great care by Mr. Wayne, an eminent pharmaced of this city, it seemed to me to be necessary to complement to previous city, it seemed to me to be necessary to complement to previous previously was kind enough to send me a specimen of geliagnia which he had himself prepared. In a second sense of experimenta with this, I ascertained that the effects which I had previously obtained by the solution of the extract corresponded substantially with those procured by peliagnia.

Physiological Effects. I have studied the action of gelicemians on cold and warm-blooded animals and op man. Frogs are very succeptible to its action, and as these animals are best adapted for this, purpose, I have made numerous experiments with

them to determine the action of gelermium on the aervons system. I purpose to narrate now only those experiments which may be considered typical.

Experiment I. Frog - Injected under the skin of the back Jan of the solution above mentioned. In ten minutes decaded loss of muscular power; could not jump, but drew up hind extremitres when placed in an inconvenient position. . complete sensory paralysis, for no movements of limits took place on application of irritants. In fifteen minutes there was romplete motor paralysis, but the muscles (of calf) contracted on direct irritation. Opened chest by division of the sternum. Heart was found in action rhythmically, pulsating twenty per minute. At the end of one hour from beginning of experiment, the action of the heart continued at fourteen pulsations per minute. There was then complete motor and sensory paralysis. At the end of two hours the action of the heart had entirely council, but it could be made to contract by pricking

It is necessary now to determine whether the scheibility of the motor or of the sensory nerves is first destroyed; whether motor paralysis commences at the centre or at the periphery; and lastly, whether the muscular irritability is affected.

EXPERIMENT, II. Prog.—Passed a ligature around the thigh, including all parts except the sciatic merve, which was carefully reparated. Then injected aftern minims of the minteen of extract In ten manufes the muscular movements were of gelsemium. observed to be feeble, and the sensibility to irritants duminished. In twenty minutes sensibility to pain appeared to be abulished. but mesoning movements could still be executed. Then pinching of upper exteriolly, a strong galvanic current, and chemical irritants applied to other parts excited no reflex movements in ligatured limb. (initanic, chemical, and mechanical irritants applied to the sciatic of the ligatured limb induced active contractions of the gastrornemus. Direct irritation applied below the ligature to the muscles of the ligatured limb also caused them to contract.

This experiment indicates that gelsemium destroys the excitability of the sensory nerves before the motor, that it does not impair the muscular irritability, and that its action as a paralyses is upon the centre, and not upon the peripheral nervy-fibres.

Explaining III Prog. Indated the weater nerve, and applied to it the adution of the extract. Prolonged contact was nerveauty to impair the conducting power of the nerve, so that the result seemed to be due finally to the altered physical condition of the nerve-fibres, rather than to the special action of gelminium. A muscle from the same frog, acted on by the solution, stid not lose its irritability until after long contact.

EXPERIMENT IV Prog.—Exposed the heart, and, making a small opening in the pericardium, introduced by means of a pipette some drops of the solution of gelsenium. Besides the disturbance of the incovernests of the heart, caused by opening the cheet, and by the distension of the pericardium, there was no apparent influence of the gelsemium itself. The muscular firstability was not destroyed, for after it had ceased to act spontaneously, the heart could still be caused to contract by direct irritation.

The warm-blended animals on which I experimented were pursons and cata. I select a typical example from each class.

Experiment V. Popera.—Temperature of gallet, 107° Fahr.; respirations 48. Injected under integrament of thigh thirty minims of the solution used in the foregoing experiments. At the end of five minutes voluntary movements-of walkingdisordered; respirations 30 per minute, laboured, expiration . jerking and prolonged. In ten minutes legs were paralyzed so "that" standing was no longer possible. Soon after wings were with Iv expanded, resting on the floor, and agitated by a successum of short tremors, which at length extended from the wines to the whole heavy Evelals partly changed. Mill manifested capacionamena und attempted to move away head when approached. Sensibility was builty completely abdushed, so that no form of stritant excited resistance or movement. Death occurred at the end of half an hour, in a general convulsive tremen, in which the eyes were almost the head drawn down, the fast extended lookward, and the wings widely expanded. The action of the heart continued for several accounts after the total suspension of the respiratory movements. Just before respiration ceased, the thermometer introduced into the gullet indicated a temperature of 104" Fabr.

Experiment VI Kates - Temperature of axilla, 102 Faler

Injected thirty minims of solution of generally minutes head depressed, resting on fem-legs, which were delitable up, respiration laborious, expiration jerking, the abdombal wall falling in toward disphragm suddenly; pupils dilating and velids drooping; in attempting to walk fore-less are weak and relaxed, but hind-legs are less affected; when tail is pinched, cat cries out and attempts, but ineffectually, to strike with fore extremity; line and tongue are dry, and tongue is frequently protraded; keeps tail in constant vibration. In aftern minutes after injection began a series of backward movements, which were repeated irredularly every few minutes. This backward movement is accomplished chiefly by the hind extramition the claws of the fore-feet-catching in the floor in consequence of the loss of nower to retract them. The cut is yet conscious of impressions, for reflex winking of the crelids takes place on touching our and face, and she cries out when the tail is strongly pinched. At the end of twenty minutes the convulsive backward movements are more frequent and irregular; jaws are widely separated mouth parched; fore-legs are drawn up and folded under the chest, and the hind-legs are rapidly flexed and extended without at last moving the body. In thirty minutes after the injection there is complete muscular relaxation: respiration ceases, but the heart continues to best for five minutes longer Temperature of axilla before respiration consed. 98° Fahr.

Comparing the observations on gold and warm-blooded animals, there is to be observed some difference in the order in which the phenomena terms. In warm-blooded animals the sensory survive the destruction of the motor functions, whereas in the cold-blooded the reverse is the case. In other respects, however, the action of gelesmium is very much the same in the two classes.

Observations on Man. Very important information may be obtained by a study of the tonic symptoms in man. There have, been neveral futal accidents in the use of preparations of gelecation, and the instances are quite numerous in which ajaruing symptoms have been preduced without destruction of life.

The toxic effects of gelsemium on man are similar to those which I have demonstrated on animals. In cases in which alarming symptoms have been produced suthout continuing to a

fatal result, the following phenomena were observed: dissinces, dimense of risson, malabite to raise the eyelids, a feeling of language, great mineralar weakness, a slowness of respiration, and feeblement of the heart's action. Dr. Wormley thus describes the symptoms in the fatal case reported to hime:----

"In two hours after taking the dose the patient complained of pain in the stomach, nauses, and dimness of vision. These symptoms were soon succeeded by great restlessment ineffectual efforts to votait, and free perspiration over the body. At the expiration of about five hours the pulse was found feeble, irregular, and sometimes intermittent, there was great prostration, with irregular breathing and slow respiration. The skin was dry, extremities cold, the pupils expanded and insensible to light, the eyes fixed, and inability to raise the eyelids. The vital powers rapidly gave way and, without convulsions, death occurred in about seven hours and a half after the poison had been takes."

In Wermley estimates the quantity of alkaloid contained in the three teaspoonfu's which produced death at about one-sixth of a grain.

There was nothing developed at the autopsy made by Dr. Stephenson to indicate the particular mode of action of gelo-mium, except the condition of the heart and lungs. "The lungs were alightly collapsed," and the cavities of the heart "greftly distended with dark, grumous blood." These appearances coincide with the mode of dying to animals—by paralysis of respiration—the mechanical effect of which is to cause an accumulation of blood in the tight cavities and in the large vendus trunks.

The symptoms observed in the cases of acadental possoning reported by Dr. E. P. Davis 2 of Parkepiburg (W. Va., were similar to those which I have just quoted from Dr. Wormley's paper

The first case, that of Mr (' Hali —, presented the following appearances. — "He was lying upon his left side, face somewhat congested; pupils dilated, but responding to the different degrees of light; eyelids half-closed, with apparent inability to move them, lower jaw drooping, and his tongue, to use his own

<sup>\*</sup> American Average of Pharmacy, January 1970, p. 14.

<sup>\* \*</sup> Journal of Shalledood Bosoners for January 1867, p. 171

expression, 'was so think he could hardly speak,' his skin was warm and moust, pulse small and feeble, and his reapprations somewhat diminished in number. He had neither purying her vomiting"

Mr S ......, the other victim, had taken the same quantitya tablespoonful of Tilden's fluid extract of gelsemium. He complained of blindness, and staggered in walking, "was in-\*clined to sleep, with deep inspirations, and a numbuess of the whole body." 'In a private communication with which Dr. Davis has favoured me, he states that the pupils of both were widely dilated, and that both bad double vision. Dissiness and vertigo were also experienced by both, but no impairment of intellect. Consciousness was not lost by 8----, who recovered: but B-- was unconscious an hour before death. "Evelida paralysed in B--'s case; only partially so in 8---'s. Loss of muscular power in B--- complete; partially so in 8----Great numbers of the extremities. Action of beart very feeble; respiratory movements diminished in both cases." - Dr. Davis describes the condition of Mr. B--- just before death as . follows: -- " Pupils widely dilated, spannedic breathing, surface cold and congreted, pulse almost imperceptible, and totally unconscious." There occurred no evacuation in either case except "cold perspiration." I wath ensued in the fatal case in two and a half hours. As both had the same dose, it is important to " sicertain the causes determining the fatal result in the one. There were two factors. In Davig informs me in his letter that " Mr. B--- was a very small, nervous, delicate man, tile revense being the case with Mr. 8---, he being a large, stout, and of sanguitesons temperament." Further, being unaware of the fact that he had swallowed a poison. Ma Il- was not given an emetic until absorption had fully taken place, Mr H---, on the other hand, received an emetac soon lifter swallowing the posson.

When we come to unalyse shore cases, we observe a close correspondence in the symptoms which they present with the phenomena observed in animals. The toxic symptoms may be summarized as follows -

> Discreters of modility and sensibility Laterared respondices Weakened actions of the heart

Dilated pupil; double vision; phosis.
 Intellect quaffected until near doubl.

The motor functions (staggering gait) appear to have been affected before the sensory (numbers). The laboured respiration is due to the paretic state of the respiratory simules, especially of the diaphragm. The action of the heart, although feeble, appears to continue until the countion of respiration. The depressed earlier movements may be, and are probably, secondary to the diminished respiration, which acts by Impeding the flow of blood through the pulmonary capillaries. The dilated pupils the double vision, the pions are imprestionably due to pagalysis of the third pair. These are early symptoms of the texternia of gelsemium. The intellectual functions remain unaffected until carbonic acid possoning comes on, when, of course, stuper and inscrability occur.

Summary of Physiciscs of Artists. 1 Being a crystalloided substance, generalists of generals, the active principle, is rapidly absorbed into the blood.

- 2 It has a selective action on the nervous system.
- A. It acts chiefly on the motor portion of the cord.
- 4. Its paralyzing effort is due to its action on the motor centre, and not to an action on the peripheral nerve-fibres.
- 5. It note also on the sensory portion of the cord, preducing at last complete absorbesia; but this effect in warm-blooded animals and in man is toxic only, and follows the paralysis of the motor functions

Non-years - All the paralesers are synergistic to gelemium. In its physiciognal acts a pelacinium corresponds more nearly to common than to any other agent. Commons a paralyser, but, unlike gelemium the paralysis commences at the periphery, and rapidly extends to the motor gentre. Chium like gelemium, does not destroy the muscular irritability. Gelemium impairs the sensibility of the aensery perves, which commissions not. Both cause death by asphyxia - paralysis of the muscles of respiration. In their effects on the brain these agents act similarly. Neither destroys, per se the functions of the brain, commissions being preserved until carbonic acid narrous supervenes. Both penduce dilatation of the papel and blindness; but gelsemium more distinctly paralyses the third pair than continue.

Autogonists - The subject of physiological antagenous is one of great interest and importance. I have, accordingly, devoted much time and labour to a determination of the supposed antigonists to gelsemium. It will suffice to present here the conclusions to which Lhave serived

A priori, nothing would seem more complete than the opposition in physiological effects of gelevatum and services, throughout the whole range of their action except in the rate at which they move to affect the system. Repeated trials on warm-blooded animals—cats and pigeons—have convinced me that there is no anthropism. An animal under the influence of nelsonian is quickly between by strychnia. The surge observallon has been made by Guttmann, in regard to comis and strychnia. A toxic dose of strychnia proves fatal before the animal can be affected by gelsemium, if the two agents be administered simultaneously: hence it is necessary, in order to andstain the suistence of a supposed antagraism, to produce the full effects of gelsemings before administering strychnia.

As respects their physiological antagonum, there are many . points of resemblance, and some points of difference, between atrapia and prisenance.

The dilatatech of the pupil produced by both is due, in the case of atropia, to contraction of the radiating fibres of the irrain the case of gelsemium, to a paretic state of the circular Dress.

In their action on the heart these two agents are antagonistic -atropia increasing the cardiac movements, and generalism diminishing them.

As both cause paralysis of the muscles of respiration it is obvious that one camput be used against the toxic symptoms produced by the other. By experiment we ascertain that this observation is correct. Atropia hashes the paralysing action of gelsenuum on the respiratory masseles, but maintains the action of the heart for some nunutes after the total cessation of the respiratory movements - much longer, indeed, than the Jeast continues to less after storque of requestion, when it because hear a sank

The opposite effects of gelsemium and physical space on the mand suggest an antagonem at other points in the range of their

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not average the dilatation of the pupil cannot by generating a result apparently due to the payerful action of the latter as a paralysis of the third pair. As requests to an effects, physostagma is someous to generating. In my experiments on warm housed anomals I assertanted that death resulted more appealing force a tall does of generating when physistigma was also administered.

I reserve for a future pap r the very interesting subject. The Therapentical Applicants paid following:

## ON THE ACTION OF MERCURY

#### BY JAMES BOSE, M.D.

In therepeaties, easie other departments of investigation, what we want much is to min a standpoint from which we can see things in their real connection and subordination, and thus give unity to a great many facts. There are no drugs which have a more extensive action upon the irring body than the salts of mercury, and any theory which will reduce their various effects to some degree of order will do signal service to therapeutica. In constructing a theory of the action of mercury," I do not intend to include its topical action, nor its local action upon the alimentary canal anterior to its being absorbed into the bland It is no more necessary to sachule these actions in the theory than it would be to discuss the theory of blustering when investigating the action of ranthandes upon the looly after absorption. It is probable that after absorption the salts of mercury assume the same form in the blood, since their effects. upon the system are very much the same. Mercury effects many changes throughout almost the entire body. These effects are so well described in text-books that I need not detail them. I shall merely mention the technical terms that here been applied to the more marked and constant groups of symptoms. Mercury produces changes up the blood, mercurial fever, salivation along with inflammation allerration and alonghing of the game, alveolar processes, and fances, certain akin affections. inflammation of the percesteum and bones, especially of the joint ends of the long bones, inflammation of the acrons membranes and of the iris, and various affections of the herves, as neuralgia, tremor, and paralysis. It also may cause severe purging, and the bublofide of mercury seems to have a special action upon the mucous membrane of the stomach and regturn

With regard to its action in disease, mercury has long been held in high repute in the cure of inflammation. It is not, however, equally useful in the cure of inflammation of all the structures of the body. Speaking broadly, it does no good, and may do harm, in inflammation of mucous membranes. It is of most value in sthenic inflammation attended with effusion of lymph, but even in those cases it may be positively injurious if administered at too early a stage of the disease, and in too large doses.

Mercury has also been employed extensively in the cure of syphilis and its consequences. Of its action in this disease it is enough to say that every form of it may be cured without mercury, but that it hastens the cure in many forms of the disease, that the occurrence of secondary symptoms is less liable to happen after its judicious administration, and that in certain forms of the disease this drug is very injurious.

Mercury has been given in other diseases with varying effects. But if we can arrive at a theory of its action which will account for its effects upon the healthy body, and upon the body when suffering from local inflammation and from syphilis, it is possible that we may be able to extend this theory in explanation of its action in other instances of disease.

Before making an endeavour to reduce these complicated facts to any degree of order, it is necessary to have a knowledge of the organism into the midst of which the mercury is introduced. It will suffice to refer to physiology for a knowledge of the laws which govern the body in health, and it would suffice to refer to pathological doctrines for a knowledge of the laws which govern the body when suffering from inflammation and from syphilis, did there not exist such a diversity of opinion with regard to the nature of these morbid processes. In consideration, therefore, of the divergence of opinions amongst pathological authorities, I must, in order to gain any degree of precision, briefly state my own views

Inflammation is not a single state, but a series, which may be roughly divided into three stages. The first stage is an excess of the normal action of the part. But soon changes take place in it, which lead to a diminished nutrition; and this forms the second stage of the disease. In the third stage, or

rather stages, we may have various terminations, ranging from complete death, on the one hand, to restoration to health on the other. The most important point to notice in this stage, in a therapeutical point of view, is, that the diseased structure manifests a tendency to restore health; and even when gangrene takes place, this tendency is manifested, not of course in the dead part, but in the tissues surrounding it.

I must now briefly allude to syphilis. This disease is the result of a specific poison, whose action upon the body is supposed to be similar to the action of ferments. There is this similarity between them: both complete the arrangement or collocation of causes necessary to convert a potential into an actual energy: and hence it is that the effect produced in both cases is out of all proportion to the quantity of the cause. But if this is all the analogy between these two processes, the spark which explodes gunpowder, the tiny light which originates a great fire, the metallic contact which determines the discharge of a Leyden jar, and numberless other phenomena, are as much in analogy with the action of the syphilitic poison as is the action of ferments. In short, the analogy, though real, is far too general to be of much use. It is therefore necessary to search for other analogies, which will be, on the one hand, sufficiently general to enable us to take a wide and comprehensive view of the subject, and, on the other hand, not so very general as to be . practically useless. I have long been of opinion that the true type of the action of the organic poisons is to be found in the union of two germs in the process of reproduction.

I have never been able to form a theory expressive of this analogy; but it is unnecessary to do so, since I find such a theory already constructed in the profound speculations of Darwin. Darwin has shown that there is a close agreement between sexual generation, germination, fissiparous generation, the repair of injuries, and ordinary growth. Allied to these processes is that of grafting, which hears a close analogy to the production of disease by inoculation. Darwin says: "When the tissues of two plants belonging to distinct species or varieties are intimately united, buds are afterwards occasionally produced which, like hybrids, combine the characters of the two united forms. It is certain," he adds, "that when

trees with variegated leaves are grafted or budded on a common stock, the latter sometimes produces buds bearing variegated leaves; but this may perhaps be looked at as a case of inoculated disease." I do not intend to discuss the theory of syphilis at any great length, and must therefore allow each of my readers to apply Darwin's hypothesis of pangenesis to the explanation of the phenomena of the disease. I accept that hypothesis as its distinguished author has advanced itnamely, provisionally-not because it is proved to be true, but because by its means we are enabled to connect a great many important and complicated facts. According to this theory, when the poison is brought into confact with the cells of another body, it impresses the motion it is itself undergoing upon the latter; these in their turn communicate the motion they have acquired to the neighbouring cells, and, at the same time, cast off gemmules which are absorbed into the blood. These gemmules have an affinity for the cells of other parts of the body, and when the two unite, the latter acquires the . motion of the former. In this manner a certain tract of tissue within the body goes through a revolution; and when this revolution is completed the tract of tissue affected by the poison has no longer an affinity for it, and is incapable of acquiring its motion. If, then, inoculated disease is to be regarded as a process in close analogy, not with the process of fermentation, but with grafting, budding, and sexual reproduction, the greatest importance must be attached, not to the poison in the blood, but to the diseased impulse given to the tissues external to the blood-vessels. In further consideration of syphilis two main questions have to be answered. First, what is the tract of tissue for which the syphilitic poison has an affinity? And second, what kind of motion is impressed upon that tissue by the poison? Both of these questions can only be answered in a very general and rough manner. The tissues affected by the syphilitic poison are the connective and fibrous tissues, serous, menilipanes, and bones—in short, the tissues derived from the serous layer of the embryo, and which may be briefly termed the white tissues of the body. This general statement is too absolute, and must be qualified in two directions. The mucous membranes, and indeed all the tissues of the body, are liable

to undergo changes during the progress of syphilis. · nective tissue, however, enters so largely into the composition of all the organs of the body that it is doubtful whether the morbid changes in the other tissues, such as ulcers on the fauces do not originate in it. But not only are other tissues affected besides the white tissues, but the latter are not equally affected, nor are they affected simultaneously. It would, however, require much greater experience of the disease than I possess in order to be able to indicate the successive portions of the body which are roused to morbid action by the syphilitic poison. Having indicated in a very imperfect manner the tissues which assume the syphilitic motion, I shall now endeavour to reduce the motion itself to some degree of order. The action which leads to the primary sore is similar, to a certain extent, to ordinary inflammation, and in so far as the two agree, the motion which the former pursues in its progress will, in my opinion, be that which I sketched out for the latter. With regard, therefore, to the primary sore, all I have to notice are the points in which it differs from ordinary inflammation. The primary sore is very similar to an ordinary pustule in the first stages of its pro-There is at first a slight elevation of the skin, pus forms, then the pustule bursts, leaving an ulcer behind. If, however, the ülcer left after an ordinary pustule be protected from injurious influences, it soon heals: but the sybhilitic ulcer becomes, indurated at its base from the growth of fibrous tissue, and manifests very little tendency to spontaneous healing. But not only does the syphilitic ulcer not heal spontaneously, it is the startingpoint of a series of changes throughout the body. The lymphatic glands nearest to the sore become affected. Even common inflammation may affect these glands, but in this case the irritation of the gland either subsides or ends in suppuration; whereas the syphilitic irritation ends in chronic induration of the gland. After this inflammation and induration, either with or without ulceration, occurs in various parts of the body, principally in the white tissues. Judging, however, from analogy, it is probable that certain parts of the body may assume the syphilitic motion without inflammation taking place. In the process of vaccination inflammation takes place only at the points which have been vaccinated; but there can be little doubt that the entire tract of tissue which has an affinity for the variolous poison has been modified by the vaccine lymph. Similarly various parts of the body may be modified by the syphilitic movement without actual inflammation taking place. I have said that one of the distinguishing characteristics of the primary sore was that in the third stage it manifested no tendency to spontaneous cure; and I may now notice that a characteristic of the entire process is that, instead of running its course in a certain number of days, like small-pox, it may, and without interference generally does, linger on for years, and may be transmitted to posterity. These are the chief points I wish to notice with regard to syphilis; and having given a theory of the two main diseases in the treatment of which mercury is used, I must turn my attention to the action of the mercury.

I have already enumerated various effects which follow the administration of mercury both in healthy and diseased conditions, and it now remains for me to construct a theory by which these facts may be bound together. But before advancing my own theory, I shall briefly review a few of the explanations of the action of mercury which are current in our literature. and which influence the practice of the day. A great many think it a sufficient explanation of the action of mercury to say that it is antiphlogistic and antisyphilitic. These terms add nothing to our knowledge; they merely express, in abstract terms. that mercury does cure inflammation and syphilis: but the worst of it is, that under these abstractions lurk several erroneous notions, which have produced the most baneful influence upon practice. If mercury is an antiphlogistic, it was concluded that it might be administered when any part of the body was inflamed. Now that ample experience has proved this conclusion to be erroneous, it is generally laid down in books as a negative rule, that mercury is not useful when a mucous membrane is inflamed. This rule is, however, a contradiction of the theory. Another erroneous notion which underlies the term antiphlogistic is, that mercury checks inflammation; hence some medical men have been so logical as to administer mercury before the inflammatory process was begun, with the idea of preventing it. I have heard of an hospital surgeon who, after performing herniotomy, immediately gave four grains of calomel

to his patient. I imagine that most practitioners will condemn this practice, and yet, if mercury be antiphlogistic, the surgeon had sound logic on his side. Cold, for instance, is antiphlogistic, and it may be employed before inflammation is established in order to prevent it; and if mercury be antiphlogistic, why not employ it in the same way? Probably there is scarcely a theory in the whole history of medicine which has produced a more injurious influence upon practice than the one that mercury is an antisyphilitic; especially when it was combined with the theory that syphilis consists of a poison circulating in the blood, and that mercury counteracted this poison as an alkali does an acid. The inference\_from these theories was, that in syphilis the sooner the blood was saturated with mercury the better. Consequently it was given in all cases and in large doses, and, as might be anticipated, with the most disastrous results. The fact that any medical man should be satisfied with the theory that mercury is an antiphlogistic indicates that therapeutics is in a very backward state. Suppose, for a moment, that the question to be determined is, not what is the action of mercury on the hody in health and disease, but what is the function of wind in navigation. Suppose one man maintains that its function is to cause vessels to sail, another that its function is to swamp vessels; one that it enables vessels to escape leeshores and rocks, another. that it drives vessels upon them; each of these theories would be as conformable to right rules of philosophizing, and as true, as the theory that mercury is an antiphlogistic and antisyphilitic. No one would for an instant be satisfied with these theories if not for the intimate connection which exists between what Comte calls the theory of organic media and the art of medicine. Comte truly says: "If science springs from art, it can be matured only when it has left art behind." We ought never to forget that a theory of the action of a drug ought to explain its action when it causes a new or aggravates an existing disease, as much as when it cures a disease. Since I only wish to notice the theories which influence the minds of medical men in the present day, it is unnecessary for me to allude to the mechanical and chemical theories of the action of mercury. The theories I shall now notice are in advance of those just mentioned,

inasmuch as they make an attempt to connect a determinate alteration in the medium with modification of function and change of tissue. Billing thought that mercury produced its action by constricting the capillaries; but this theory will not explain a great many of the effects of the drug. It does not explain the fact that mercury causes inflammation in various parts of the body; that certain parts are acted upon in preference to others; that it aggravates certain cases of syphilis; that it does not cure inflammation of mucous membranes; and many more of the best ascertained effects of mercury upon the body

The only other theory which I shall notice is the one which regards mercury as a blood medicine. There can be no doubt that, during the administration of mercury, the blood undergoes many changes; but the question to be determined is, whether this is a primary or a secondary action. The penair of a slight external miary produces alterations in the blood; but in this case the change in the blood is secondary to the change in the tissues; and it is quite possible that the same may be the case with the blood changes produced by mercury. According to the theory of inflammation and of syphilis which I adopt, the principal part of the morbid process takes place in the tissues internal to the blood-vessels, and it is only consistent that I - should endeavour to elaborate a theory of the action of mercury in the same direction. On the other hand, those who are satisfied with the zymotic theory of syphilis will be naturally inchied to believe that mercury produces its primary action upon the blood. Nor can I prove a negative against this theory, and therefore cannot positively say that it is erroneous. I will, however, claim this much for the theory I am about to advance, that it will explain more of the known effects of mercury, and that the practical maxims by which we are guided in its administration at the bed-side can be readily deduced from it.

I have already said that I would take it for granted that the salt of mercury is absorbed into the blood, and I conceive that after absorption it has an affinity for a certain tract of tissue. The tissues for which mercury has an affinity are generally the same as those attacked by syphilis, namely, the white tissues of the body. It seems to affect by preference the joint ends of the

long bones, serous membranes, certain parts of the true skin, · and probably the submucous tissue of the tonsils, fauces, and gums, and it appears to seek an outlet from the body mainly through the salivary glands and the mucous membrane of the alimentary canal, especially that of the rectum. The nature of the influence exerted by mercury over the tissues for which it has an affinity is that of a stimulant; but in order to prevent misconceptions I must dwell a little on the meaning which I attach to that term. Pereira defines a stimulant "as an agent which increases the vital activity of an organ." When, however, I say that infercury is a stimulant to the tissues for which it has an affinity, I do not mean to assert that the real effect which ensues is one of vital activity. The reverse of this is very often the case; but even when death of the tissue results the tendency of the drug may be that of a stimulant. For the sake of illustration, let me imagine a person looking at a boy's kite falling to the ground, and suppose him ignorant of the special characteristics of this instrument, but knowing the general properties of matter. He will know that the kite is falling by the force of gravity, and may think that by pulling at the string attached he will accelerate its fall. If he makes a yery slight pull, he will succeed; a little stronger pull, and he may still succeed: and this he may regard as a complete verification of his argumentation. But when the pull is still stronger; the kite makes a turn and begins to ascend. By gradually increasing the tension of the string he may get the kite to ascend more steadily and more rapidly, and he may now be ready to come to the conclusion that the more he pulls the more quickly will the kite ascend, when all at once the balance is overthrown and the kite descends again. Here then are the most opposite effects produced by only slight differences in degree of the same cause, namely, slight variations in the tension of the string attached to the kite. The explanation of this is that when we call the tension of the string the cause of the motion of the kite we employ the term in its popular and not in its scientific sense. In the scientific sense the cause is the aggregate of conditions or circumstances requisite to the effect. The scientific cause of the motion of the kite is not only the tension of the string, but the properties of the kite surrounds the kite. In investigating, therefore, the cause of the effects attributed to mercury we ought to remember that the. scientific cause is not the mercury only, but also the laws of the body with that of its environment. Hence it is that the most opposite effects may be explained by one and the same tendency of action of one of the factors of the cause. It now remains for me to show that the main effects of mercury on the body may be explained on the supposition that it tends to stimulate . to increased activity the tissues which I have already specified. I shall now endeavour to apply this theory very briefly to the explanation of the phenomena. When mercury is administered in health it may, by stimulating in excess, produce local inflammations in the tissues for which it has an affinity. I cannot say why mercury acts upon the salivary glands, gums, fauces, and upon some parts of the alimentary canal; our best plan is to accept the facts and endeavour to utilize them in practice. These facts may at some future time be explained when the laws of the correlation of growth, or what Paget calls "complementary nutrition," are better ascertained. According, then, to my theory, the changes in the blood and the nervous symptoms result from anterior nutritive changes in the white tissues.

When mercury is administered in disease, say in the first stage of inflammation of a tissue for which it has an affinity, it may act in two ways: it may aggravate the disease, or it may develop the second stage; hence the caution which is generally laid down in books, that mercury should only be employed after depletion. Mercury, in short, is a hazardous remedy for the first stage of the disease, and should in general not be employed till the skin is moist and the pulse has lost its hardness. In the second step of inflammation of a tissue, for which mercury has an affinity, it stimulates it to increased action, more blood is attracted to the part; the circulation through it is rendered more active; absorption of effused fluids, takes place, and the cells of the part rise in the order of organization: hence the entire course of events in this stage is towards health. Mercury is not a remedy for the generality of mucous membranes, just because it has no special affinity for them.

In syphilis, mercury is administered when the base of the primary ulcer is thickened. It acts by stimulating the tissues surrounding the ulcer to increased action. Great care however

should be taken not to push the action of the drug too far during the period of the disease. It ought to be remembered that the syphilitic gemmules may already be circulating in the blood, and if these gemmules and the mercury impress their motion upon any tissue at the same time, the disease may be very much aggravated. I have already said that some of the tissues of the body may be undergoing the syphilitic movement • without any external lesion being produced. But if the mercury begins to affect this tissue at that time, a severe lesion may be This will explain why some medical men have the result. attributed the syphilitic lesions to the mercury itself, since the drug has in this case acted as a concurring cause. The mercury should be administered, not before a lesion takes place but during chronic thickenings and other lesions, in order to stimulate the tissues to increased activity, and only when the lesion takes place in a tissue for which the mercury has an affinity. The action of mercury therefore in syphilis is not at all comparable to the action of an alkali in neutralizing an acid, or to that of an autidote to a poison, but is more analogous to the action of a spur in riding a horse. Sometimes the spur may be useful, sometimes injurious; but the object is to get the horse to accomplish a journey. Similarly, mercury may be useful at times, may do a great deal of harm at other times; but, in determining under what circumstances it should be employed, it . ought to be remembered that the aim of treatment is not to check or repress the disease, but to assist it through a revolution. To borrow an illustration from the life of states: the function of the medical man in the treatment of syphilis is not like that of the stern warrior, who suppresses a revolution by opposing force to force and compels order, but to that of the great and wise statesman, who directs the social forces into a particular channel. and out of the discordant elements evokes the double events of order and progress.

Dr. Ringer, in his recent work on therapeutics, recommends mercury in mumps, tonsilitis, and dysentery; and this is only what might be anticipated if my theory is the correct one. In the present divided state of opinion I shall not undertake to decide whether or not it has a special action over the liver, but I will say that Dr. Bennett's experiments are not at all considering in the proof.

## ON THE USES OF WINES IN HEALTH AND DISEASE.

#### BY THE EDITOR AND STAFF.

PART II. ON WINES IN DISEASE.

Section II. Wines in Chronic, Diseases.

(Continued from p 168)

The final section of our subject concerns the employment of wines in chronic diseases—a theme so extensive that it is difficult to select the points which may be most advantageously brought together within the compass of a paper of moderate length. The best division of the subject that suggests itself to our mind is the following:—1. Wine in debility, produced by failure of primary digestion. 2. Wine in defective conditions of the blood, such as anæmia, chlorosis, hydræmia, &c., not yet complicated with tissue-change. 3. Wine in phthisis, and in the wasting diseases of childhood. 4. Wine in chronic neuroses of the aged. 5. Wine in exhausting mucous discharges. 6. Wine in chronic suppuration.

1. In a large number of persons debility is mainly caused by a failure of primary digestion: the first starting-point may have been either of several occurrences, but the main fact is that the patient does not digest, even if he still swallows, a sufficient quantity of nutriment; very commonly, too, the evil reacts upon itself, and persistent under-nutrition brings about a notable impairment of appetite, or even a positive disgust for all food.

It must be understood that cases of the class we refer to are not always distinguished, in the first instance, by loss of appetite; indeed there are some patients who from first to last take a fair quantity of food, though they fail to make use of it in the organism. And on the other hand there are plenty of cases

of failure of primary digestion, where anorexia is from the first a conspicuous symptom, but in which the administration of alcohol in any shape would be a grave mistake. Among these we may, perhaps, include the majority of chronic catarrhal affections, but of course most especially that variety of gastric catarrh which has itself been provoked by alcoholic excess: here no treatment will be anything but mischievous which does not include a complete abstinence from alcohol. On the other hand, the absence of well-marked catarrhal physical signs (e.g. in the appearance of the tongue) by no means certainly contradicts the notion of alcohol as perhaps the cause of dyspepsia: we occasionally see a drunkard with a perfectly clean tongue.

Chronic gastric catarrh, arising as an apparently independent affection, and not linked (as it often is) to chronic diseases of some other viscus, is probably always caused by improper food or drink, or else by the same kind of exposure to weather, &c., which might produce an ordinary chronic nasal er bronchial catarrh. It is consequently but very rarely a fit subject for alcoholic treatment: but if ever such treatment be found absolutely necessary from the general state of health, a very light effervescing wine, free from sugar, or extremely weak brandy and soda-water, is the only form which should be allowed. A single glass of strong wine or spirit may undo the work of months of treatment.

There are, however, a considerable number of cases of dyspepsia, to which there is a tendency, at present, to give the title of catarrhal, simply on the ground that the dyspepsia and want of appetite are accompanied by a certain amount of apparent enlargement of the tongue, and exhaustion of its epithelium, with perhaps a few red points near the tip; but in which the original cause of the mischief is, in truth, nothing but nervous depression. For such cases as these a fixed moderate allowance of a generous wine is very helpful. When we can distinctly make out from the history that the patient has not exposed himself to the effects of improper food or drink (very often such people have been too abstemious in every way), or other ordinary causes of stomach catarrh, we may very properly employ a wine of good body and medium alcoholic strength. For an adult man, six to eight ounces per diem of a Reaune

(Burgundy) of about 14 per cent. absolute alcohol, or four ounces for an adult female, will be very useful; and for the same purpose we may recommend several of the stronger red Hungarian wines, and the Greek wine, known as red Kefesia. The chief requisites in wine, for this purpose, seem to be, (a) medium alcoholic strength, and (b) good original vinous flavour; and it does not appear requisite that the qualities of very old wine should be present. A moderate amount of astringency perhaps may increase somewhat the good effects of such wines upon the appetite; but anything like a highly tannic wine will rather disgust, and may also cause troublesome conscipation.

While maintaining, however, that many such dyspeptic patients, with pseudo-irritant symptoms, are really benefited by wine, we must insist that the quantity be strictly restrained to the limits above mentioned, and also that it is very necessary to inquire whether the original depression did not arise mainly from neglect of ordinary food. Dr. Blandford has recently pointed out the great mischief that is often done to the nervous system by the bad custom of many hard-working merchants to pass a long day from breakfast to late dinner without food; and we may lay it down as very certain that the dyspepsia, which is a prominent feature in such cases, should be encountered, in the first place, rather by increased quantities of suitable food than by alcohol.

2. The use of wines in conditions of blood which, whether in the form of simple anamia, chlorosis, or general hydramia, indicate above all things a deficiency of the all-important red corpuscles, is by no means a simple matter. Practically we may clear the ground somewhat by laying down, as a fact, demonstrable from large and general empiric experience, that anamia resulting from homorrhage nearly always does require and is immediately benefited by the use of alcohol; and that this is much best given in the form of full-flavoured and potent wine. For such purposes, full-bodied port-wine of moderate age, but retaining much of the richness of its original flavour, is decidedly the best agent. and we may venture to administer it with considerable freedom (c.g. 12 to 16 oz., or 6 to 8 small port glasses,

<sup>1 &</sup>quot;On the Value of a large Supply of Food in certain Nervous Diseases;" Practitioner, July 1870.

for an adult), on the condition that we never produce symptoms of narcosis. It will be found that these quantities are often well borne at first, but they must be rapidly and steadily reduced as the patient's condition improves, and as he becomes more sensitive to the action of alcohol.

It is much more difficult to say whether, or how much, alcohol ought to be given in cases of anamia which verge towards the chlorotic type. As a general rule, we strongly object to its use in this form of blood-weakness, for we have found it complicate matters by increasing the headache and distaste for food, without really advancing the blood-regeneration in the slightest degree; moreover wine has a tendency to make this class of patients more hysterical and self-indulgent than they otherwise would be. Exception, however, must be made for the case of rapidly advancing chlorosis of a dangerous type, with profound melancholy: here the use of stimulants, and especially of generous port-wine, is often our most valuable resource; although it can only divert the course of the disease, and give breathing time to allow of the effectual use of tonics, food, and hygiene.

Again, there is a class of anæmic cases in which the true source of mischief is nothing more than neglect of bed, coupled or not with anxiety and worry of mind. If this neglect of rest be inevitable, from the press of necessary work, then, imperfect as the remedy may be, we believe that alcohol must be allowed,. and that pretty freely. It must never be forgotten that rest, and not alcohol, is the true remedy. Nevertheless we are quite certain that it is an error to suppose that alcohol does nothing more than enable such persons to use up their brain tissue faster, and thus get more work out of themselves for the moment: we cannot doubt that it affords substantial assistance, whether by the production of brain-force, or possibly by aiding the nutrition of nervous tissue Only it must always be remembered that the repair of all tissues is far more effectually provided for by periods of rest from stremuous exertion, allowing time for the more slowly convertible elements of food to have their full effect.

As regards the condition of hydramia,—general poorness of blood in all solid ingredients,—which is so strikingly seen in NO. XXVIII.

sundry chronic visceral diseases, we believe that no absolute rule as to the use of alcohol can be laid down, some such patients appearing to bear stimulation very badly. In the great majority of such cases, however, it is quite necessary, and the main point is to employ it in that form which will exert the maximum good influence upon appetite and digestion. For this purpose we have always found the greatest effectiveness in port or sherry or marsala; and it is desirable to choose a wine not so old as to have lost its original flavour, but sherry of moderate age contains this last qualification with a fair development of the volatile ethereal ingredients; and these are a very useful element, more especially where the patient is restless and sleepless.

3. The question of alcohol in phthisis of adults is hotly disputed: on the one hand, many authorities maintain that it is an unmixed evil; on the other hand, the treatment possesses numerous advocates, and we even meet with records (by Flint and others) of patients almost exclusively nourished upon an alcoholic diet for prolonged periods, with apparently very beneficial effect. subject has engaged our particular attention, and without expressing a very confident opinion, we have good grounds for believing that the following is a near approach to the truth. There are two classes of cases in which alcohol appears to play an important part in the arrest of phthisis. In a class of patients who have delicate skins and perspire very freely, and with whom, at the same time, oil and fatty matters habitually disagree (a not very common combination of conditions, but one which is seen in a certain number of instances), we have more than once seen remarkable effects produced by the entire abandonment of all medication. and the employment of large doses of spirit-whisky or rum; and a singular point in these cases was the tolerance of alcohol that was shown, even from the first. It is a singular sight to observe a delicate and habitually abstemious person taking ten or twelve ounces of rum a day as coolly as if it were the most customary thing; yet that was the allowance consumed by a patient of my own, and with the exception of a fair amount of milk it was almost his sole nutrition during many months, in the course of which the most threatening symptoms of the disease, especially the signs of commencing softening, had entirely disappeared.

Even where the patient, however, is not affected in the peculiar . way above indicated, and where he is able to take a fair amount of fatty and other nutrient matters, there is an important use for alcohol in certain contingencies, though we believe that it should be excluded from the routine of his daily life. We refer to the occurrence of hectic and other symptoms of acute softening: and we hold that there is a great want of discrimination in the way • in which wine-treatment is often recommended, or forbidden, by authorities, in these cases. Our own experience has led us to believe that the question must here be judged, just as we have proposed that it should be judged in cases of acute disease, experimentally. In each case the effects of experimental doses upon the form of the pulse-wave, and on the temperature, and the elimination of alcohol by the kidneys, should be carefully tested; and according to what we have noted, in observing a large number of cases, we are justified in believing that when alcohol reduces temperature, and the dicrotions of the pulse, and fails to pass away in notable quantity by the kidney, it always does good; but that the slightest degree of narcotic action of . alcohol is decidedly harmful. We do not doubt that it is to the results of such narcotic action that some physicians refer, when they say as a very able physician said to us the other day, that "alcohol was murder in phthisis." As regards the form of alcohol to be employed, we believe that the main thing to be . considered is the patient's fancy, as this will very generally . indicate the proper forms of stimulant. Only, we ought to be careful to know the alcoholic strength of the liquor, whatever it be, and we ought to be sure that the wine is free from acetous decomposition.

Among the wasting diseases of childhood there are a variety of conditions in which the judicious use of alcohol is invaluable; and here the stronger wines are invariably to be preferred, especially sherry. We have already referred to the use of small quantities of sherry in the case of children who, without manifesting any signs of positive disease, show a marked tendency from time to time to run down suddenly in flesh. But wine has a much more positive value in infantile wasting which is the expression of a serious constitutional vice. Among the conditions of this kind we may especially notice the

scrofulous and the rickety forms of disease, and, beyond all. well-pronounced tabes mesenterica. It is rather remarkable. that the evident superiority of steel wine to other ferruginous preparations, in the majority of these cases, has not led to a more general consideration of the probability that the vinous part of the medicine goes for much in its effect upon the organism. Our own attention was principally called to the use of wine in infantile marasmus by the pre-eminent efficacy. of the vinum ferri; and since that time we have very often made the experiment of relying on wine without the iron results have been excellent; and in studying the matter as closely as we could, we have been led to the conviction that it is ofincipally by fortifying the functions of primary digestion that the remedy produces its good effects. It is now our invariable custom to commence the treatment of all cases of tabes by prescribing a fixed allowance of sherry (given as medicine preferably, with the addition of a vegetable bitter) at the rate of from one to two ounces per diem it make any difference whether the case be complicated with diarrhœa or not, only in the latter instance there is nearly always additional reason for strengthening the function of primary digestion, and wine is especially useful though it is needless to say that careful avoidance of food that is difficult · of digestion is an essential condition of success. In rickets. again, a diet composed entirely of cream, milk, and bread, with the addition of some phosphate of lime, and the allowance of sherry just mentioned, affords, probably, all the assistance that nature can receive from art in rectifying the faulty nutrition of the body, except in the way of general hygienic regulations. But it is especially in warding off true tuberculosis from children that the value of wme is conspicuous; and were this more generally recognized, we believe that phthisis of children. instead of being so fatal a disease as it is, would rarely develop in a fatal form at all; of course supposing that all proper hygienic precautions were adopted, and especially a liberal supply of simple and nutritious food. But we repeat here what we said in another place: wine should always be given to young children in the form of medicine, and not as a beverage at meals: since it is important not to set up a liking

for it which, when the child arrives at the critical period of puberty, might have an unfortunate influence on the further development of the emotional and sensual part of his nature.

- 4. Certain chronic neuroses of the latter part of life present special aspects in which wine becomes an important conside-We refer especially to that exceedingly severe and intractable form of neuralgia (most commonly facial) which is rarely or never developed until after the age of forty; and which. once developed, resists remedies with such pertinacity. not quite so helpless against this terrible malady, it is true, as we formerly were; in particular it may be said that galvanism now appears to offer great chances of substantial relief. Still the misery which these neuralgias inflict, and the extent to which they shatter the system, is deplorable under the best of circumstances; and we need every helpful adjunct we can get The reflex irritation which the disease sets up is often fatal at onse to appetite and to sleep; and wine is the true remedy for this part of the mischief. In elderly persons we have not to apprehend the same mischief to character which is so great a danger when alcohol is prescribed with freedom for the chronic ailments of those who have not yet passed the "grand climacteric;" and we have personally seen cases in which, when the stomach would retain scarcely anything else, it was quieted, and the patient's strength was admirably husbanded and fortified, by an . almost exclusively alcoholic diet-twelve to eighteen ounces ofsherry per diem continued for several days. The older the wine, the more endowed with ethereal ingredients, the more effective is it for this purpose. Still we have seen patients greatly benefited by large doses of spirit which was practically little more than alcohol. \* \*
  - 5. The employment of alcoholic drinks in cases of chronic mucous discharges—e. g. chronic catarrh of bronchial or nasal mucous membrane, chronic leucorrhæa, &c., is a very doubtful matter. That they frequently relieve the sensations of depression and discomfort which these affections cause is unquestionable, and in the case of the chronic bronchial catarrh of the aged it may be that they are indispensable. As regards the commonest of all chronic mucous discharges—leucorrhæa—we have long been learning, with increasing strength, to believe that

the treatment is almost unmixedly mischievous; at any rate that alcohol ought never to be prescribed, whatever the apparent degree of depression, save in very small quantities of wine, preferably claret, Hungarian Carlowitz, or some of the rough red Greek wines, taken with meals to assist appetite and stimulate primary digestion. The true remedies are local astringents and the free application of cold water, combined with the most persevering use of exercise in the open air. And alcohol offers the most serious temptations to women suffering from the deadly languor often associated with profuse leucorrhoea; temptations which they would do well never to face.

There is a particular use of alcohol, however, in one form of chronic catarrh, viz. the chronic pseudo-dysentery of young children, which is really of high value. Directly astringent midicines are of almost no use in these complaints; and the only drugs that should be employed are ipecacuanha, with or without very small quantities of opium. But a slightly astringent red wine of fair alcoholic strength often is very useful. And here we have much pleasure in saying that some of the Greek wines, of which we have been rather sparing of praise in other relations, fill an important place. They have the requisite body, they have a useful degree of astringency, and they have an alcoholic strength conveniently intermediate between the lighter natural wines and the strongly fortified ports, sherries, and marsalas. Three tablespoonfuls a day, for a child of three years old, is a fair allowance.

We hasten to conclude this imperfect sketch of the use of wines in chronic diseases by a few words on what is perhaps the most important part of the subject, viz wine in the treatment of chronic suppuration. There are at least two objects which alcohol can achieve in this state, and they are of so great consequence that the judicious use of this remedy is frequently decisive in averting serious and even fatal results. In the first place, there is every reason to think that the free (but non-narcotic) employment of alcohol checks both the migration of white corpuscles and all the subsequent movements which go to the formation of pus: and if it be true, as some suppose, that pus cells are also formed from the division of the elementary tissues, there can be little doubt that this process also would be checked by the treat-

ment. On the other hand, alcohol, especially when given in the form of stout or port-wine, marvellously sustains and fortifies the appetite and the primary digestion. The prompt limitation of chronic suppurative processes is by no means to be thought of-with our present knowledge-as a mere beneficial check upon the morbid action which is directly exhausting the bodily forces. It is all-important, because we have to dread absorptive infections, and the appearance of the true and almost necessarily fatal tuberculosis. How powerfully this argument ought to weigh with us is sufficiently apparent if we consider the case of chronic empyema, and the miserable frequency with which it is followed by fatal phthisis. The prompt evacuation of the pus, even in cases of large chronic abscess, if it were supplemented by proper local measures for cleansing the cavity, and excluding fermentative processes, would far more frequently be followed by cure than is now the case, if it were associated with the intelligent use of alcohol. The copious, and even reckless, administration of stimulants is perhaps common enough; but this is often mere waste. The patients will bear and require more alcohol than in health: but there is no need for any great excess. The simultaneous use of alcohol and of quinine, according to the principles laid down by Binz, offers the true solution of the matter. From three to six wine-glasses per diem of port, each glass containing one grain of quinine, is, we believe, incomparably the best form of administration to employ in all these cases But even here we must insist that it is absolutely necessary to judge by results, and to scrupulously reduce the allowance of wine the moment that even the slightest symptoms of narcosis present themselves.

# Rebiews.

Observations on Therapeutics and Disease. By Donald Camp-Bell Black, M.D., L.R.C.S. Edin London: Churchill, 1870. Pamphlet.

THE perusal of this clever pamphlet has given us a curious series of sensations. The first, we freely confess, was one of indignant surprise, the second was a strongish reaction of feeling in the author's favour; the third and final impression was, that although over-ambitious, and by no means proving his whole case, Dr. Black is one of those thinkers who ought to be

encouraged.

Our first surprise was natural enough; for it is not often in the present day that one meets with so thorough-going and exclusive His four propositions are these:—1. The harmoa pathologist nious performance of histogenesis and histolysis constitutes health; 2. That a class of diseases devitalizes by a preponderance of the histolytic function of assimilation, 3. That to an insufficient oxidation of effete tissue (or the converse of the second proposition), or inadequate elimination, a class of diseases sui generis may be ascribed; 4. That apart from these, flany diseases are due to ifritation specifically or non-specifically pro-The first of these propositions there is no need to Under the second, Dr. Black includes the whole class of fevers; under the third, he includes gout, rheumatism, oxaluria, fieuralgia, calculous diseases, scrofula, diabetes, and probably scarlatina, diphtheria, cancrum oris, hospitel gangrene, &c., erysipelas, puerperal fever, and all their local manifestations; the first group of this division induced by habit of body, the second, or problematical, by the introduction of a morbific agent into the blood; under the fourth section are the diseases chiefly characterized by inflammation and its consequences.

We have said that we think such an attempt as Dr. Black's is one to be encouraged. We think so, because boldness of thought, and a disposition to handle the problems of disease and of health in a large spirit, are very necessary to that great reform in therapeutics which we all hope to see, but which is still very much a mere hope. We cannot, however, for a moment pretend to accept Dr. Black's main classification as sufficient, still less to follow him in the details of therapeutic

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indication which his leading principles suggest to him. There is, for instance, no reason whatever, so far as we know, for placing scarlatina, erysipelas, and puerperal fever in the exactly opposite category of diseases to that of the true fevers which are accompanied by hyper-oxidation and rapid wasting of tissue; on the contrary, all that is known from chemical analysis of excretions, &c., is strongly in favour of the belief that the former diseases, also, are attended by hyper-oxidation of tissues. Again, we must object strongly to the classification of neuralgia, rheumatism, and gout together, as diseases caused by deficient oxidation; for if gout deserves this character, there is no proof at all that rheumatism does; and the close connection which the author assumes between these two diseases and neuralgia is less and less admitted by modern writers. The tendency to neuralgia appears almost constantly to present itself in connection with hereditary tendencies to neurotic disease, and though no one would deny that the presence of lurking gouty or rheumatic tendencies may occasionally favour its outbreak, it seems to occur, in much the greatest number of cases, quite independently of such a cause, and indeed to be provokable by a number of different influences, which agree in nothing except in the fact that they depress the nervous system. And certainly we believe that very few authorities will be found to agree with Dr. Fuller, whom the author quotes, in thinking that the pain of neuralgia is generally due to affection of the nerve-sheath, rather than the nerve-substance; such a class of cases there undoubtedly is, but they are small in number, and the vast majority of neuralgias, at their commencement, appear to involve no affection of the fibrous structures whatever. Assuredly, also, it is not true that neuralgias at all generally, far less universally, are subjects of so-called "oxaluria."

Diabetes, again, which the author quotes as a disease of deficient oxidation; seems to us to lack altogether the proofs of such an origin; rather, if we trace it into its first beginnings, it would seem to depend upon obscure changes in the central nervous system, and even when the disease has developed the glycosuric stage there is no proof at all of deficient oxidation of the tissues generally. In like manner, Dr. Black is far too hasty in his statements about the chemistry of tubercle and of the phthisical state generally. He says of tubercle, that carbon predominates in its composition; but a very little recollection would tell him that there is no more carbon in tubercle than there is in albumen, but rather less carbon, if the analyses of Scherer were And as regards the amount of urea in the urine, he is content with quoting the authority of E. Becquerel, to the effect that there is a great diminution of this element; but, on the other hand, the evidence of Parkes and of Brattler show that 234 • REVIEWS.

with a moderately advancing phthisis the diminution is small or nothing, while in hectic attacks, and in the last stages of phthisis, it would appear certain (Ringer) that there is a large increase of urea. And we must say that the therapeutic conclusion to which Dr. Black's theory of phthisis leads him is to our thinking quite untenable, for he thinks that the beneficial action of cod-liver oil must be due to the *acidising* power of fats. It is to us a perfectly new conception that fats are oxidisers; we should have said that, on the contrary, they were consumers of oxygen, and would so far tend to shield the tissues from those oxidation processes which Dr. Black thinks so specially needed, in phthisis and allied diseases, to remove effete matter from the body.

These criticisms are only a few out of a great number which we could make, and we have felt it our duty to make them in order to show that the author has failed to lay what we can consider at all a satisfactory foundation for a reformed system of therapeutics. In spite of this, however, we conclude with an expression of goodwill to him; for there is much ability in his pamphlet, and it will be an immense gain to practical medicine if he succeeds in stirring up our scientific therapeutists to look at questions of medication in a broad way, and in relation to the great physiological states, instead of merely ticketing remedies with specific titles, and inducing the hapless practitioner to discharge them at a supposed peccant organ, as a boy might aim a pea from a pop-gun. Only, if a science of therapeutics is to be founded on this new and more rational kind of basis, it will be necessary to be extremely careful that the physiological facts · which are to be built upon are absolutely accurate.

Acupressure. An Essay to which a Prize was awarded by the Medical Society of the State of New York. By Joseph C. Hutchinson, M.D., &c. &c. Albany, 1869: Pamphlet.

This essay is a brief but clear and forcible account of a record, both experimental and practical, on the merits of acupressure; and its author comes to conclusions, based on a large amount of experience, which are highly favourable to the claims of acupressure as compared with ligature of arteries. It seems to us an important reinforcement of the arguments hitherto advanced in favour of the process, and is certainly deserving the attentive study of English surgeons. "So strong," says the author, "has become my conviction, that, for the past twelve months, I have not taken ligatures into the operating room, and for two months, during a recent service in the Brooklyn City Hospital, which accommodates from 150 to 200 patients, there was not a ligature in the institution." Such facts as these are worth much more

than speculative arguments, and must command the respectful attention of practical men.

- A Resumé of the History of Hygiene. Being the Introductory Lecture to a Course on Hygiene and Public Health. By W. H. Corfield, M.B. (Oxon), M.R.C.P. (Lond.), Professor of Hygiene in University College, London. London: H. K. Lewis, 1870
- This introductory lecture, which is supplemented by a syllabus of Professor Corfield's course of lectures, cannot but be regarded with interest by all well-wishers to the progress of hygienic knowledge among our future medical practitioners. A heavy responsibility is laid on those who, like the author of this address, are entrusted with the creation of a system of teaching on this most important subject at one of our principal metropolitan schools, and the whole profession is interested in observing . the manner in which they lay themselves out to their work, so to speak. There is certainly no lack of intelligence or energy in the way our author attacks his subject. He is full of faith in the powers of hygiene to ameliorate the condition of mankind; and, with a proper ambition to see the science placed upon a solid foundation, he carefully inculcates the necessity of a comprehensive study of everything that can throw light on the etiology and prevention of disease, and, besides this, of a mental culture which will fit the student to draw proper conclusions from observed facts arrayed in the statistical form. If there be a fault in the tone of his inaugural address, it is perhaps a certain over-sanguine disposition, which eappears to tempt the eauthor occasionally to a scarcely justified assumption which fits well with a preconceived idea as to the efficacy of certain hygienic measures. Is he quite justified, for instance, in saying not only that the Egyptian plague is a disease of modern times, but also that it is "generated" from the pestilent marshes which the negligent tillage of the degraded modern Egyptians fails to redeem to the purposes of agriculture? We trow not; and we think that the enthusiastic professor would do well to reconsider this, and one or two other similar statements in his address, under the chastening influence of that mathematical turn of thought which he very properly describes as one of the most ·important qualifications of the hygienic investigator.

Bellevue and Charity Hospital Reports; 1870. New York:

• Appletons.

This volume of reports of the New York Hospitals contains fourteen papers, scarcely one of which is without interest, and the majority are of great value. Several which we cannot notice here, because their bearing on therapeutics is too remote, may be mentioned, in order to direct our readers' attention to articles which they ought not to overlook: namely, Dr. Austin Flint's three papers "On the Analytical Study of the Pulmonary Physical Signs furnished by Auscultation and Percussion," "On the Diagnostic Characters, Mechanism, and Significance of the Mitral Direct, or Obstructive Cardiac Murmurs, and on the Occurrence of a Tricuspid Direct Murmur," "On the Mode of obtaining the Venous Hum, and the value of this Physical Sign;" and the report on the Pathological Department of Bellevue Hospital by Drs. Southack and Janeway. A paper by Dr Flint on an analysis of 102 cases of Bright's diseases is the first to attract our attention, among those which bear directly on treatment; but before proceeding to notice the author's remarks on the latter point, let us mention one or two of his previous conclusions which are of consequence.

As regards etiology, the following are the conclusions suggested by the facts Dr. Flint has collected:—Occupation seems to have no particular influence in inducing Bright's diseases; Alcoholic beverages, as to which precise notes were obtained in 38 cases (patients mostly males), also appear to have no special causative influence; the Male Sex appears to be considerably more liable to these diseases than the female; as to Age, excluding scarlatinal cases, the mean age of 50 fatal cases was 36 years, of 18 cases that recovered it was 32 years, of 24 whose termination was not known it was 34 years; in short, the causes of Bright's diseases are chiefly operative after adolescence, and

before advanced age. .

As regards treatment, this was never directed towards direct cure; but (exclusive of mere palliatives) had reference to the following objects: (1) Elimination of excrementitious principles, when come or convulsions were present; (2) removal of dropsy; (3) diminution of albumen in urine; (4) improvement of ap-

petite, digestion, and general condition.

As regards diuretics, the author comes to the conclusion that these remedies do not do mischief, as has been often argued, in desquamative suppuritis, and that in several instances they have appeared to effect decided good; he employed the acetate, nitrate, and bitartrate of potash, digitalis, squill, &c.; and he believes that even more efficacious remedies of the kind might be employed. He has seen very good results from infusion of paraley-root. Of cathartics, the author speaks decidedly; both as regards unemia and dropsy he has no question of the great benefit which they frequently produce. In the main we agree with him here; and we especially think him right in deprecating the exaggerated fear with which many practitioners regard elaterium in cases of great dropsy and distressing dyspace; the good

effects of this, in apparently desperate circumstances, must be witnessed in a series of cases before the physician can properly trust the remedy. We cannot, however, agree with Ilr. Flint's approval of castor-oil, which, though universally ranked in the same category with elaterium, is in fact a very different drug. and may excite such violent irritation in all the internal organs as greatly to increase the patient's danger, while elaterium, in anything like moderate quantity, is prostrating merely by reason of the enormous outpour of intestinal fluid which it excites—an inconvenience which brandy will sufficiently meet. subject of the hot-air bath, the evidence adduced by Dr Flint is disappointingly negative, and although the author himself does not go quite so far, we should be inclined to say there is no proof that it ever effected any good. Among tonics, the author seems to have tried gallic acid with especial care and perseverance, and with decidedly negative results; on the other . hand, there appeared to be no doubt at all that iron, or iron and quinine, effected positive good in a number of cases, after the gallic acid had failed. For our own part, we long to see the experiment carried out, on the large scale, of submitting all patients who present albuminuria from renal disease (whether acute or chronic) at once to treatment with full doses of murate of iron: using no adjuvant whatever, save the employment of purgatives when great dropsy or serious uramic symptoms occur; and of course dealing as may be necessary with complicating affections of other viscera. With these measures, with suitable diet, and with chloral as a hypnotic when needed, we shrewdly suspect that the physician can effect all that it is possible to effect.

\*Another most interesting paper is by Dr. Hammond, "On certain Results of Excessive Intellectual Exertion" We cannot consent to spoil this short treatise by a hurried analysis, but we strongly recommend it to the attention of English physicians. In regard to treatment, however, it is noteworthy that Dr. Hammond insists, with great confidence (and his authority deserves all respect), that besides entire rest and change of scene for a time. and a complete change of the mental habits afterwards, medicinal treatment is not only usually requisite, but does a large amount of positive good. The author thinks that bromide of potassium decidedly checks that hurry of the cerebral circulation which is especially common as a result of intense and especially of irregular. and intense cerebral exertion; and, on the other hand, phosphurated oil or the phosphate of zinc, with strychnia, have a powerful influence in averting the mal-nutrition which is an otherwise too probable second stage of the complaint. Cod-liver oil is of value as an adjuvant. Besides these, Dr. Hammond speaks warmly of the effect of the constant galvanic current, both for the purpose of contracting the calibre of the cerebral vessels in the early stage, and to improve the nutrition of the brain. For the former purpose the positive pole should be applied to the sympathetic in the neck, the negative to the nucha: or one pole may be placed over each mastoid process. To improve nutrition, one pole should be placed on the nape of the neck and the other on the forehead. Not more than sixteen elements should be employed, says Dr. Hammond, and even with that number great care must be taken to stop as soon as signs of fatigue are shown. If Dr. Hammond is speaking of Daniell's elements, we should say that something like half the number would be safer, and that it would not be well to employ the current for more than three minutes at a time, with breaks at each ten seconds.

Of surgical papers the volume contains several that are of much We can only refer the reader to Dr. Lewis A. Sayre's remarks on "the Serious Consequences which result from Neglect - of Slight Injuries of the Ankle-joint;" Dr. Isaac E. Taylor's elaborate paper on "Amputation of the Cervix Uteri;" Dr. Burrall's paper on "Entire Excision of the Os Calcis," and especially to Dr. Gaillard Thomas's account of eight cases of ovariotomy, of which four were successful. A word or two must be given finally to an interesting report of the result of amputations at the Bellevue. It is doubtless no fault of the compiler of this report, that he has (as he confesses) been able only to find records of something like one-sixth or one-eighth of the number of amputations really performed during the period which his tables cover. It is well, however, that the reader should-clearly note this fact: otherwise the figures are alarming enough, showing a mortality, on all amputations, of fifty per cent.!

# An die ordinirenden Acrzte der Militarlazurethe. Von Ç. BINZ.

We have inceived this interesting memorandum from Professor Binz, who, like a good patriot, has gone to the field with the German army, and is, or was the other day, attending to the wounded at Gorze, near Metz—It is a series of directions issued to the surgeons of the military, hospital, in order to enable them to test to the full that power of quinine to prevent the rise and limit the progress of septicæntia which seems to be established as a fact by those researches of Binz which we have already several times mentioned in this journal. We reprint them, as they are of almost equal interest to surgeons of large hospitals in this country.

I. The combating of traumatic septicæmia by quinine must begin at the moment when nausea is first felt. The early detection of the indications is also aided by thermometric observation twice daily, and a sharp observation of the aspect of the wound. It will be proper in doubtful cases to begin quinine as a precaution: no harm can be thus done.

2. The administration of quinine must be continued some

days after we have quite destroyed the septic poison.

3 For extensive wounds small doses are useless; nothing under thirty grains in the twenty-four hours is of any avail. It only produces an evanescent lowering of temperature. On particular days, and in severe cases, as much as sixty grains

may be necessary.

4. The use of the officinal sulphate of quinia in powder, drinking spring water after it, is absolutely bad. It upsets the healthy stomach, and in feverish gastric disturbances hinders absorption. The readily soluble hydrochlorate is best. As this is not readily accessible in the field, the sulphate may be dissolved, with a few drops of hydrochloric acid, in rain-water.

5. Where for some reason gastric administration is unadvisable, a solution of the hydrochlorate should be given in

enema. The dose must then be one-fourth larger.

6. The action of quinine goes on most securely if we give a strong dose at the time of the spontaneous lowering of temperature, in the first hours of night, and very early in the morning. The condition of the heart must always be taken into account, for large doses might prove dangerous by paralysing its motor apparatus. Simultaneous stimulation, especially with wine and camphor, is a useful aid to the antiseptic treatment, and prevents the toxic action of the alkaloid.

7. One must be specially careful that the quinine contains, at most, only a trace of the inactive cinchenine. The importance of its purity in other respects need not be insisted on.

Therapeutisches Recept. Taschenbuch für Frauen- und Kinderkrankheiten nach der Wiener Schule, Von Dr. Emil Dilly-Berger. 2. Auflage. Wien, 1870. London: Williams and Norgate. Price 3s.

This is a useful little work, of a class which might be multiplied with great advantage. In the present unsettled state of opinion in therapeutics, it must at least be worth while to know what is the prevailing practice, in a large and important branch of medicine such as the diseases of women and children, in a city like Vienna, which is one of the recognized great centres of European medical teaching. The editor has done his work in a concise and terse way which renders it easily available for reference; and we would recommend all who have even a moderate knowledge of German to purchase it. They will find a complete summary of the Viennese treatment for all the special maladies of women and children, and they

will probably be equally surprised to find how closely the practice, in regard to any single disease they may refer to, agrees with the most advanced and intelligent English methods; while, on the other hand, there is no work in the English language that at all resembles I)r. Dillnberger's convenient little handy-book. Although the book is by no means a mere collection of prescriptions, but a real summary of treatment in general, the practitioner will find it contains a great many useful formulæ; we would especially instance the chapter on Vomiting of Pregnancy, where there are a variety of prescriptions which we have personally found useful, but which are not at all commonly used in this country. It would repay an English publisher, we should think, if he were to print a translation of this little book, with notes on any points where the English practice differs from the Viennese.

